German Research Center for Environmental Health

## Publication List 2013

2014-01-01

\* external authors are starred

#### **Environmental Health**

Abbas, S.\*, Linseisen, J., Rohrmann, S.\*, Chang-Claude, J.\*, Peeters, P.H.\*, Engel, P.\*, Brustad, M.\*, Lund, E.\*, Skeie, G.\*, Olsen, A.\*, Tjonneland, A.\*, Overvad, K.\*, Boutron-Ruault, M.C.\*, Clavel-Chapelon, F.\*, Fagherazzi, G.\*, Kaaks, R.\*, Boeing, H.\*, Buijsse, B.\*, Adarakis, G.\*, Ouranos, V.\*, Trichopoulou, A.\*, Masala, G.\*, Krogh, V.\*, Mattiello, A.\*, Tumino, R.\*, Sacerdote, C.\*, Buckland, G.\*, Suarez, M.V.A.\*, Sánchez, M.J.\*, Chirlaque, M.D.\*, Barricarte, A.\*, Amiano, P.\*, Manjer, J.\*, Wirfält, E.\*: Dietary intake of vitamin D and calcium and breast cancer risk in the European Prospective Investigation into Cancer and Nutrition. *Nutr. Cancer* **65**, 178-187 (2013)

Accordini, S.\*, Corsico, A.G.\*, Braggion, M.\*, Gerbase, M.W.\*, Gislason, D.\*, Gulsvik, A.\*, Heinrich, J., Janson, C.\*, Jarvis, D.\*, Jõgi, R.\*, Pin, I.\*, Schoefer, Y., Bugiani, M.\*, Cazzoletti, L.\*, Cerveri, I.\*, Marcon, A.\*, de Marco, R.\*: The cost of persistent asthma in Europe: An international population-based study in adults. *Int. Arch. Allergy Immunol.* **160**, 93-101 (2013)

Aichler, M.Y., Elsner, M., Ludyga, N., Feuchtinger, A., Zangen, V., Maier, S.K., Balluff, B., Schöne, C., Hierber, L., Braselmann, H., Meding, S., Rauser, S., Zischka, H., Aubele, M., Schmitt, M.\*, Feith, M.\*, Hauck, S.M., Ueffing, M., Langer, R.\*, Kuester, B.\*, Zitzelsberger, H.F., Höfler, H., Walch, A.K.: Clinical response to chemotherapy in oesophageal adenocarcinoma patients is linked to defects in mitochondria. *J. Pathol.* **230**, 410-419 (2013)

Aichler, M.Y., Walch, A.K.: In brief: The (molecular) pathogenesis of Barrett's oesophagus. *J. Pathol.* **232**, 383–385 (2014) [published online 2013]

Albayrak, Ö.\*, Pütter, C.\*, Volckmar, A.L.\*, Cichon, S.\*, Hoffmann, P.\*, Nöthen, M.M.\*, Jockel, K.H.\*, Schreiber, S.\*, Wichmann, H.-E., Faraone, S.V.\*, Neale, B.M.\*, Herpertz-Dahlmann, B.\*, Lehmkuhl, G.\*, Sinzig, J.\*, Renner, T.J.\*, Romanos, M.\*, Warnke, A.\*, Lesch, K.P.\*, Reif, A.\*, Schimmelmann, B.G.\*, Scherag, A.\*, Hebebrand, J.\*, Hinney, A.\*, Psychiatric GWAS Consortium ADHD Subgroup: Common obesity risk alleles in childhood attention-deficit/hyperactivity disorder. *Am. J. Med. Genet. B* **162**, 295-305 (2013)

Albrecht, E., Waldenberger, M., Krumsiek, J., Evans, A.M.\*, Jeratsch, U., Breier, M., Adamski, J., Koenig, W.\*, Zeilinger, S., Fuchs, C., Klopp, N., Theis, F.J., Wichmann, H.-E., Suhre, K., Illig, T., Strauch, K., Peters, A., Gieger, C., Kastenmüller, G., Doering, A., Meisinger, C.: Metabolite profiling reveals new insights into the regulation of serum urate in humans. *Metabolomics* **10**, 141-151 (2014) [published online 2013]

Albrecht, E., Sillanpää, E.\*, Karrasch, S., Alves, A.C.\*, Codd, V.\*, Hovatta, I.\*, Buxton, J.L.\*, Nelson, C.P.\*, Broer, L.\*, Hägg, S.\*, Mangino, M.\*, Willemsen, G.\*, Surakka, I.\*, Ferreira, M.A.\*, Amin, N.\*, Oostra, B.A.\*, Bäckmand, H.M.\*, Peltonen, M.\*, Sarna, S.\*, Rantanen, T.\*, Sipilä, S.\*, Korhonen, T.\*, Madden, P.A.\*, Gieger, C., Jörres, R.A.\*, Heinrich, J., Behr, J.\*, Huber, R.M.\*, Peters, A., Strauch, K.\*, Wichmann, H.-E., Waldenberger, M., Blakemore, A.I.\*, de Geus, E.J.\*, Nyholt, D.R.\*, Henders, A.K.\*, Piirilä, P.L.\*, Rissanen, A.\*, Magnusson, P.K.\*, Viñuela, A.\*, Pietiläinen, K.H.\*, Martin, N.G.\*, Pedersen, N.L.\*, Boomsma, D.I.\*, Spector, T.D.\*, van Duijn, C.M.\*, Kaprio, J.\*, Samani, N.J.\*, Jarvelin, M.R.\*, Schulz, H.: Telomere length in circulating leukocytes is associated with lung function and disease. *Eur. Respir. J.*, DOI:10.1183/09031936.00046213 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Albrechtsen, A.\*, Grarup, N.\*, Li, Y.\*, Sparsø, T.\*, Tian, G.\*, Cao, H.\*, Jiang, T.\*, Kim, S.Y.\*, Korneliussen, T.\*, Li, Q.\*, Nie, C.\*, Wu, R.\*, Skotte, L.\*, Morris, A.P.\*, Ladenvall, C.\*, Cauchi, S.\*, Stancáková, A.\*, Andersen, G.\*, Astrup, A.\*, Banasik, K.\*, Bennett, A.J.\*, Bolund, L.\*, Charpentier, G.\*, Chen, Y.\*, Dekker, J.M.\*, Doney, A.S.\*, Dorkhan, M.\*, Forsen, T.\*, Frayling, T.M.\*, Groves, C.J.\*, Gui, Y.\*, Hallmans, G.\*, Hattersley, A.T.\*, He, K.\*, Hitman, G.A.\*, Holmkvist, J.\*, Huang, S.\*, Jiang, H.\*, Jin, X.\*, Justesen, J.M.\*, Kristiansen, K.\*, Kuusisto, J.\*, Lajer, M.\*, Lantieri, O.\*, Li, W.\*, Liang, H.\*, Liao, Q.\*, Liu, X.\*, Ma, T.\*, Ma, X.\*, Manijak, M.P.\*, Marre, M.\*, Mokrosiński, J.\*, Morris, A.D.\*, Mu, B.\*, Nielsen, A.A.\*, Nijpels, G.\*, Nilsson, P.\*, Palmer, C.N.\*, Rayner, N.W.\*, Renström, F.\*, Ribel-Madsen, R.\*, Robertson, N.\*, Rolandsson, O.\*, Rossing, P.\*, Schwartz, T.W.\*, D.E.S.I.R. Study Group, Slagboom, P.E.\*, Sterner, M.\*, DIAGRAM Consortium (Huth, C., Klopp, N.B., Petersen, A.-K., Grallert, H.H., Gieger, C., Wichmann, H.-E., Meitinger, T., Thorand, B., Illig, T.), Tang, M.\*, Tarnow, L.\*, Tuomi, T.\*, van't Riet, E.\*, van Leeuwen, N.\*, Varga, T.V.\*, Vestmar, M.A.\*, Walker, M.\*, Wang, B.\*, Wang, Y.\*, Wu, H.\*, Xi, F.\*, Yengo, L.\*, Yu, C.\*, Zhang, X.\*, Zhang, J.\*, Zhang, Q.\*, Zhang, W.\*, Zheng, H.\*, Zhou, Y.\*, Altshuler, D.\*, 't Hart, L.M.\*, Franks, P.W.\*, Balkau, B.\*, Froguel, P.\*, McCarthy, M.I.\*, Laakso, M.\*, Groop, L.\*, Christensen, C.\*, Brandslund, I.\*, Lauritzen, T.\*, Witte, D.R.\*, Linneberg, A.\*, Jørgensen, T.\*, Hansen, T.\*, Wang, J.\*, Nielsen, R.\*, Pedersen, O.\*: Exome sequencing-driven discovery of coding polymorphisms associated with common metabolic phenotypes. *Diabetologia* **56**, 298-310 (2013)

Alloni, D.\*, Campa, A.\*, Friedland, W., Mariotti, L.\*, Ottolenghi, A.\*: Integration of Monte Carlo simulations with PFGE experimental data yields constant RBE of 2.3 for DNA double-strand break induction by nitrogen ions between 125 and 225 keV/µm LET. *Radiat. Res.* **179**, 690-697 (2013)

Altomonte, J.\*, Marozin, S.\*, de Toni, E.N.\*, Rizzani, A.\*, Esposito, I., Steiger, K., Feuchtinger, A., Hellerbrand, C.\*, Schmid, R.M.\*, Ebert, O.\*: Antifibrotic properties of transarterial oncolytic VSV therapy for hepatocellular carcinoma in rats with thioacetamide-induced liver fibrosis. *Mol. Ther.* **21**, 2032-2042 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

AMD Gene Consortium, Fritsche, L.G.\*, Chen, W.\*, Schu, M.\*, Yaspan, B.L.\*, Yu, Y.\*, Thorleifsson, G.\*, Zack, D.J.\*, Arakawa, S.\*, Cipriani, V.\*, Ripke, S.\*, Igo, R.P.\*, Buitendijk, G.H.\*, Sim, X.\*, Weeks, D.E.\*, Guymer, R.H.\*, Merriam, J.E.\*, Francis, P.J.\*, Hannum, G.\*, Agarwal, A.\*, Armbrecht, A.M.\*, Audo, I.\*, Aung, T.\*, Barile, G.R.\*, Benchaboune, M.\*, Bird, A.C.\*, Bishop, P.N.\*, Branham, K.E.\*, Brooks, M.\*, Brucker, A.J.\*, Cade, W.H.\*, Cain, M.S.\*, Campochiaro, P.A.\*, Chan, C.C.\*, Cheng, C.Y.\*, Chew, E.Y.\*, Chin, K.A.\*, Chowers, I.\*, Clayton, D.G.\*, Cojocaru, R.\*, Conley, Y.P.\*, Cornes, B.K.\*, Daly, M.J.\*, Dhillon, B.\*, Edwards, A.O.\*, Evangelou, E.\*, Fagerness, J.\*, Ferreyra, H.A.\*, Friedman, J.S.\*, Geirsdottir, A.\*, George, R.J.\*, Gieger, C., Gupta, N.\*, Hagstrom, S.A.\*, Harding, S.P.\*, Haritoglou, C.\*, Heckenlively, J.R.\*, Holz, F.G.\*, Hughes, G.\*, Ioannidis, J.P.\*, Ishibashi, T.\*, Joseph, P.\*, Jun, G.\*, Kamatani, Y.\*, Katsanis, N.\*, N Keilhauer, C.\*, Khan, J.C.\*, Kim, I.K.\*, Kiyohara, Y.\*, Klein, B.E.\*, Klein, R.\*, Kovach, J.L.\*, Kozak, I.\*, Lee, C.J.\*, Lee, K.E.\*, Lichtner, P., Lotery, A.J.\*, Meitinger, T., Mitchell, P.\*, Mohand-Saïd, S.\*, Moore, A.T.\*, Morgan, D.J.\*, Morrison, M.A.\*, Myers, C.E.\*, Naj, A.C.\*, Nakamura, Y.\*, Okada, Y.\*, Orlin, A.\*, Ortube, M.C.\*, Othman, M.I.\*, Pappas, C.\*, Park, K.H.\*, Pauer, G.J.\*, Peachey, N.S.\*, Poch, O.\*, Priya, R.R.\*, Reynolds, R.\*, Richardson, A.J.\*, Ripp, R.\*, Rudolph, G.\*, Ryu, E.\*, Sahel, J.A.\*, Schaumberg, D.A.\*, Scholl, H.P.\*, Schwartz, S.G.\*, Scott, W.K.\*, Shahid, H.\*, Sigurdsson, H.\*, Silvestri, G.\*, Sivakumaran, T.A.\*, Smith, R.T.\*, Sobrin, L.\*, Souied, E.H.\*, Stambolian, D.E.\*, Stefansson, H.\*, Sturgill-Short, G.M.\*, Takahashi, A.\*, Tosakulwong, N.\*, Truitt, B.J.\*, Tsironi, E.E.\*, Uitterlinden, A.G.\*, van Duijn, C.M.\*, Vijaya, L.\*, Vingerling, J.R.\*, Vithana, E.N.\*, Webster, A.R.\*, Wichmann, H.-E., Winkler, T.W.\*, Wong, T.Y.\*, Wright, A.F.\*, Zelenika, D.\*, Zhang, M.\*, Zhao, L.\*, Zhang, K.\*, Klein, M.L.\*, Hageman, G.S.\*, Lathrop, G.M.\*, Stefansson, K.\*, Allikmets, R.\*, Baird, P.N.\*, Gorin, M.B.\*, Wang, J.J.\*, Klaver, C.C.\*, Seddon, J.M.\*, Pericak-Vance, M.A.\*, Iyengar, S.K.\*, Yates, J.R.\*, Swaroop, A.\*, Weber, B.H.\*, Kubo, M.\*, Deangelis, M.M.\*, Léveillard, T.\*, Thorsteinsdottir, U.\*, Haines, J.L.\*, Farrer, L.A.\*, Heid, I.M., Abecasis, G.R.\*: Seven new loci associated with age-related macular degeneration. Nat. Genet. 45, 433-439 (2013)

Ameres, S., Mautner, J., Schlott, F., Neuenhahn, M., Busch, D.H., Plachter, B.\*, Moosmann, A.: Presentation of an immunodominant immediate-early CD8<sup>+</sup> T cell epitope resists human cytomegalovirus immunoevasion. *PLoS Pathog.* **9**:e1003383 (2013)

Anger, A.M.\*, Armache, J.P.\*, Berninghausen, O.\*, Habeck, M.\*, Subklewe, M., Wilson, D.N.\*, Beckmann, R.\*: Structures of the human and *Drosophila* 80S ribosome. *Nature* **497**, 80-85 (2013)

Anjos, T.\*, Altmäe, S.\*, Emmett, P.\*, Tiemeier, H.\*, Closa-Monasterolo, R.\*, Luque, V.\*, Wiseman, S.\*, Pérez-García, M.\*, Lattka, E., Demmelmair, H.\*, Egan, B.\*, Straub, N.\*, Szajewska, H.\*, Evans, J.\*, Horton, C.\*, Paus, T.\*, Isaacs, E.\*, van Klinken, J.W.\*, Koletzko, B.\*, Campoy, C.\*, NUTRIMENTHE Research Group: Nutrition and neurodevelopment in children: Focus on NUTRIMENTHE project. *Eur. J. Nutr.* **52**, 1825-1842 (2013)

Apel, M.\*, Uebe, S.\*, Bowes, J.\*, Giardina, E.\*, Korendowych, E.\*, Juneblad, K.\*, Pasutto, F.\*, Ekici, A.B.\*, McManus, R.\*, Ho, P.\*, Bruce, I.N.\*, Ryan, A.W.\*, Behrens, F.\*, Bohm, B.\*, Traupe, H.\*, Lohmann, J.\*, Gieger, C., Wichmann, H.-E., Padyukov, L.\*, FitzGerald, O.\*, Alenius, G.M.\*, McHugh, N.J.\*, Novelli, G.\*, Burkhardt, H.\*, Barton, A.\*, Reis, A.\*, Hüffmeier, U.\*: Variants in *RUNX3* contribute to susceptibility to psoriatic arthritis, exhibiting further common ground with ankylosing spondylitis. *Arthritis Rheum.* **65**, 1224-1231 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Archangelo, L.F.\*, Greif, P.A., Maucuer, A.\*, Manceau, V.\*, Koneru, N., Bigarella, C.L.\*, Niemann, F.\*, dos Santos, M.T.\*, Kobarg, J.\*, Bohlander, S.K., Saad, S.T.O.\*: The CATS (FAM64A) protein is a substrate of the Kinase Interacting Stathmin (KIS). *Biochim. Biophys. Acta-Mol. Cell Res.* **1833**, 1269-1279 (2013)

Assinger, A.\*, Yaiw, K.C.\*, Göttesdorfer, I., Leib-Mösch, C., Söderberg-Nauclér, C.\*: Human Cytomegalovirus (HCMV) induces Human Endogenous Retrovirus (HERV) transcription. *Retrovirology* **10**:132 (2013)

Atkinson, M.J.: Radiation treatment effects on the proteome of the tumour microenvironment. *Adv. Exp. Med. Biol.* **990**, 49-60 (2013)

Autenrieth, C.S., Karrasch, S.\*, Heier, M., Gorzelniak, L., Ladwig, K.-H., Peters, A., Döring, A.: Decline in gait performance detected by an electronic walkway system in 907 older adults of the population-based KORA-age study. *Gerontology* **59**, 165-173 (2013)

Autenrieth, C.S., Kirchberger, I., Heier, M., Zimmermann, A.-K., Peters, A., Döring, A., Thorand, B.: Physical activity is inversely associated with multimorbidity in elderly men: Results from the KORA-Age Augsburg study. *Prev. Med.* **57**, 17-19 (2013)

Azimzadeh, O., Sievert, W.\*, Sarioglu, H., Yentrapalli, R., Barjaktarovic, Z., Sriharshan, A., Ueffing, M., Janik, D., Aichler, M., Atkinson, M.J., Multhoff, G.\*, Tapio, S.: PPAR alpha: A novel radiation target in locally exposed *Mus musculus* heart revealed by quantitative proteomics. *J. Proteome Res.* **12**, 2700-2714 (2013)

Azimzadeh, O., Atkinson, M.J., Tapio, S.: Proteomics in radiation research: Present status and future perspectives. *Radiat. Environ. Biophys.* **53**, 31-38 (2013)

Baarsma, H.A., Königshoff, M., Gosens, R.\*: The WNT signaling pathway from ligand secretion to gene transcription: Molecular mechanisms and pharmacological targets. *Pharmacol. Ther.* **138**, 66-83 (2013)

Badie, C.\*, Kabacik, S.\*, Balagurunathan, Y.\*, Bernard, N.\*, Brengues, M.\*, Faggioni, G.\*, Greither, R.\*, Lista, F.\*, Peinnequin, A.\*, Poyot, T.\*, Herodin, F.\*, Missel, A.\*, Terbrueggen, B.\*, Zenhausern, F.\*, Rothkamm, K.\*, Meineke, V.\*, Braselmann, H., Beinke, C.\*, Abend, M.\*: Laboratory intercomparison of gene expression assays. *Radiat. Res.* **180**, 138-148 (2013)

Baerenwald, D.A.\*, Bonnefond, A.\*, Bouatia-Naji, N.\*, Flemming, B.P.\*, Umunakwe, O.C.\*, Oeser, J.K.\*, Pound, L.D.\*, Conley, N.L.\*, Cauchi, S.\*, Lobbens, S.\*, Eury, E.\*, Balkau, B.\*, Lantieri, O.\*, MAGIC Investigators (Grallert, H.H., Gieger, C., Meisinger, C., Thorand, B., Wichmann, H.-E., Illig, T.), Dadi, P.K.\*, Jacobson, D.A.\*, Froguel, P.\*, O'Brien, R.M.\*: Multiple functional polymorphisms in the *G6PC2* gene contribute to the association with higher fasting plasma glucose levels. *Diabetologia* **56**, 1306-1316 (2013)

Bakshi, M.V., Barjaktarovic, Z., Azimzadeh, O., Kempf, S.J., Merl, J., Hauck, S.M., Eriksson, P.\*, Buratovic, S.\*, Atkinson, M.J., Tapio, S.: Long-term effects of acute low-dose ionizing radiation on the neonatal mouse heart: A proteomic study. *Radiat. Environ. Biophys.* **52**, 451-461 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Balasubramanian, S.K.\*, Poh, K.-W.\*, Ong, C.-N.\*, Kreyling, W.G., Ong, W.-Y.\*, Yu, L.E.\*: The effect of primary particle size on biodistribution of inhaled gold nano-agglomerates. *Biomaterials* **34**, 5439-5452 (2013)

Barjaktarovic, Z., Anastasov, N., Azimzadeh, O., Sriharshan, A., Sarioglu, H., Ueffing, M., Tammio, H.\*, Hakanen, A.\*, Leszczynski, D.\*, Atkinson, M.J., Tapio, S.: Integrative proteomic and microRNA analysis of primary human coronary artery endothelial cells exposed to low-dose gamma radiation. *Radiat. Environ. Biophys.* **52**, 87-98 (2013)

Barjaktarovic, Z., Shyla, A., Azimzadeh, O., Schulz, S., Haagen, J.\*, Dörr, W.\*, Sarioglu, H., Atkinson, M.J., Zischka, H., Tapio, S.: Ionising radiation induces persistent alterations in the cardiac mitochondrial function of C57BL/6 mice 40 weeks after local heart exposure. *Radiother. Oncol.* **106**, 404-410 (2013)

Barros, M.H.\*, Hauck, F.\*, Dreyer, J.H.\*, Kempkes, B., Niedobitek, G.\*: Macrophage polarisation: An immunohistochemical approach for identifying M1 and M2 macrophages. *PLoS ONE* **8**:e80908 (2013)

Bartis, D.\*, Mise, N., Mahida, R.Y.\*, Eickelberg, O., Thickett, D.R.\*: Epithelial-mesenchymal transition in lung development and disease: Does it exist and is it important? *Thorax*, DOI:10.1136/thoraxjnl-2013-204608 (2013)

Batscheider, A., Rzehak, P., Teuner, C.M., Wolfenstetter, S.B., Leidl, R., von Berg, A.\*, Berdel, D.\*, Hoffmann, B.\*, Heinrich, J., GINIplus Study Group (Wichmann, H.-E., Heinrich, J.), LISAplus Study Group (Wichmann, H.-E., Heinrich, J.): Development of BMI values of German children and their healthcare costs. *Econ. Hum. Biol.* **12**, 56–66 (2014) [published online 2013]

Bauer, F.\*, Filipiak-Pittroff, B., Wawer, A.\*, von Luettichau, I.\*, Burdach, S.\*: Escalating topotecan in combination with treosulfan has acceptable toxicity in advanced pediatric sarcomas. *Pediatr. Hematol. Oncol.* **30**, 263-272 (2013)

Baumann, R.\*, Rabaszowski, M.\*, Stenin, I.\*, Tilgner, L.\*, Gaertner-Akerboom, M.\*, Scheckenbach, K.\*, Wiltfang, J.\*, Chaker, A., Schipper, J.\*, Wagenmann, M.\*: Nasal levels of soluble IL-33R ST2 and IL-16 in allergic rhinitis: Inverse correlation trends with disease severity. *Clin. Exp. Allergy* **43**, 1134-1143 (2013)

Baumert, J., Lukaschek, K., Kruse, J.\*, Emeny, R.T., Koenig, W.\*, von Känel, R.\*, Ladwig, K.-H.: No evidence for an association of posttraumatic stress disorder with circulating levels of CRP and IL-18 in a population-based study. *Cytokine* **63**, 201-208 (2013)

Baumhoer, D., Brunner, P.\*, Eppenberger-Castori, S.\*, Smida, J., Nathrath, M., Jundt, G.\*: Osteosarcomas of the jaws differ from their peripheral counterparts and require a distinct treatment approach. Experiences from the DOESAK registry. *Oral Oncol.* **50**, 147–153 (2014) [published online 2013]

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Beck, I., Jochner, S.\*, Gilles, S., McIntyre, M.\*, Buters, J.T.M., Schmidt-Weber, C.B., Behrendt, H., Menzel, A.\*, Traidl-Hoffmann, C.: High environmental ozone levels lead to enhanced allergenicity of birch pollen. *PLoS ONE* **8**:e80147 (2013)

Becker, E.C., Wölke, G., Heinrich, J.: Bronchial responsiveness, spirometry and mortality in a cohort of adults. *J. Asthma* **50**, 427-432 (2013)

Beelen, R.\*, Hoek, G.\*, Vienneau, D.\*, Eeftens, M.\*, Dimakopoulou, K.\*, Pedeli, X.\*, Tsai, M.-Y.\*, Künzli, N.\*, Schikowski, T.\*, Marcon, A.\*, Eriksen, K.T.\*, Raaschou-Nielsen, O.\*, Stephanou, E.\*, Patelarou, E.\*, Lanki, T.\*, Yli-Tuomi, T.\*, Declercq, C.\*, Falq, G.\*, Stempfelet, M.\*, Birk, M., Cyrys, J., von Klot, S., Nádor, G.\*, Varró, M.J.\*, Dedele, A.\*, Grazuleviciene, R.\*, Mölter, A.\*, Lindley, S.\*, Madsen, C.\*, Cesaroni, G.\*, Ranzi, A.\*, Badaloni, C.\*, Hoffmann, B.\*, Nonnemacher, M.\*, Krämer, U.\*, Kuhlbusch, T.\*, Cirach, M.\*, de Nazelle, A.\*, Nieuwenhuijsen, M.\*, Bellander, T.\*, Korek, M.\*, Olsson, D.\*, Strömgren, M.\*, Dons, E.\*, Jerrett, M.\*, Fischer, P.\*, Wang, M.\*, Brunekreef, B.\*, de Hoogh, K.\*: Development of NO<sub>2</sub> and NO<sub>x</sub> land use regression models for estimating air pollution exposure in 36 study areas in Europe - the ESCAPE project. *Atmos. Environ.* **72**, 10-23 (2013)

Beelen, R.\*, Raaschou-Nielsen, O.\*, Stafoggia, M.\*, Andersen, Z.J.\*, Weinmayr, G.\*, Hoffmann, B.\*, Wolf, K., Samoli, E.\*, Fischer, P.\*, Nieuwenhuijsen, M.\*, Vineis, P.\*, Xun, W.W.\*, Katsouyanni, K.\*, Dimakopoulou, K.\*, Oudin, A.\*, Forsberg, B.\*, Modig, L.\*, Havulinna, A.S.\*, Lanki, T.\*, Turunen, A.\*, Oftedal, B.\*, Nystad, W.\*, Nafstad, P.\*, de Faire, U.\*, Pedersen, N.L.\*, Östenson, C.-G.\*, Fratiglioni, L.\*, Penell, J.\*, Korek, M.\*, Pershagen, G.\*, Eriksen, K.T.\*, Overvad, K.\*, Ellermann, T.\*, Eeftens, M.\*, Peeters, P.H.\*, Meliefste, K.\*, Wang, M.\*, Bueno-de-Mesquita, B.\*, Sugiri, D.\*, Krämer, U.\*, Heinrich, J., de Hoogh, K.\*, Key, T.\*, Peters, A., Hampel, R., Concin, H.\*, Nagel, G.\*, Ineichen, A.\*, Schaffner, E.\*, Probst-Hensch, N.\*, Künzli, N.\*, Schindler, C.\*, Schikowski, T.\*, Adam, M.\*, Phuleria, H.\*, Vilier, A.\*, Clavel-Chapelon, F.\*, Declercq, C.\*, Grioni, S.\*, Krogh, V.\*, Tsai, M.-Y.\*, Ricceri, F.\*, Sacerdote, C.\*, Galassi, C.\*, Migliore, E.\*, Ranzi, A.\*, Cesaroni, G.\*, Badaloni, C.\*, Forastiere, F.\*, Tamayo, I.\*, Amiano, P.\*, Dorronsoro, M.\*, Katsoulis, M.\*, Trichopoulou, A.\*, Brunekreef, B.\*, Hoek, G.\*: Effects of long-term exposure to air pollution on natural-cause mortality: An analysis of 22 European cohorts within the multicentre ESCAPE project. *Lancet* 383, 785-795 (2013)

Behrens, T.\*, Kendzia, B.\*, Treppmann, T.\*, Olsson, A.\*, Jockel, K.H.\*, Gustavsson, P.\*, Pohlabeln, H.\*, Ahrens, W.\*, Brüske, I., Wichmann, H.-E., Merletti, F.\*, Mirabelli, D.\*, Richiardi, L.\*, Simonato, L.\*, Zaridze, D.\*, Szeszenia-Dabrowska, N.\*, Rudnai, P.\*, Lissowska, J.\*, Fabianova, E.\*, Tardón, A.\*, Field, J.\*, Stanescu Dumitru, R.\*, Bencko, V.\*, Foretova, L.\*, Janout, V.\*, Siemiatycki, J.\*, Parent, M.E.\*, McLaughlin, J.\*, Demers, P.\*, Landi, M.T.\*, Caporaso, N.\*, Kromhout, H.\*, Vermeulen, R.\*, Peters, S.\*, Benhamou, S.\*, Stücker, I.\*, Guida, F.\*, Consonni, D.\*, Bueno-de-Mesquita, B.\*, 't Mannetje, A.\*, Pearce, N.\*, Tse, L.A.\*, Yu, I.T.\*, Plato, N.\*, Boffetta, P.\*, Straif, K.\*, Schüz, J.\*, Pesch, B.\*, Brüning, T.\*: Lung cancer risk among bakers, pastry cooks and confectionary makers: The SYNERGY study. *Occup. Environ. Med.* **70**, 810-814 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Beinke, C.\*, Barnard, S.\*, Boulay-Greene, H.\*, de Amicis, A.\*, de Sanctis, S.\*, Herodin, F.\*, Jones, A.\*, Kulka, U.\*, Lista, F.\*, Lloyd, D.\*, Martigne, P.\*, Moquet, J.\*, Oestreicher, U.\*, Romm, H.\*, Rothkamm, K.\*, Valente, M.\*, Meineke, V.\*, Braselmann, H., Abend, M.\*: Laboratory intercomparison of the dicentric chromosome analysis assay. *Radiat. Res.* **180**, 129-137 (2013)

Benhenda, S.\*, Ducroux, A.\*, Rivière, L.\*, Sobhian, B.\*, Ward, M.D.\*, Dion, S.\*, Hantz, O.\*, Protzer, U., Michel, M.L.\*, Benkirane, M.\*, Semmes, O.J.\*, Buendia, M.A.\*, Neuveut, C.\*: Methyltransferase PRMT1 is a binding partner of HBx and a negative regulator of Hepatitis B Virus transcription. *J. Virol.* **87**, 4360-4371 (2013)

Bento, J.\*, Barros, S.\*, Teles, P.\*, Vaz, P.\*, Zankl, M.: Efficiency correction factors of an ACCUSCAN whole-body counter due to the biodistribution of <sup>134</sup>Cs, <sup>137</sup>Cs and <sup>60</sup>Co. *Radiat. Prot. Dosim.* **155**, 16-24 (2013)

Berezowska, S.\*, Novotny, A.\*, Bauer, K.\*, Feuchtinger, A., Slotta-Huspenina, J.\*, Becker, K.\*, Langer, R.\*, Walch, A.K.: Association between HSP90 and Her2 in gastric and gastroesophageal carcinomas. *PLoS ONE* **8**:e69098 (2013)

Bermudez, O., Hennen, E., Koch, I.\*, Lindner, M.\*, Eickelberg, O.: Gli1 mediates lung cancer cell proliferation and Sonic hedgehog-dependent mesenchymal cell activation. *PLoS ONE* **8**:e63226 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Berndt, S.I.\*, Gustafsson, S.\*, Mägi, R.\*, Ganna, A.\*, Wheeler, E.\*, Feitosa, M.F.\*, Justice, A.E.\*, Monda, K.L.\*, Croteau-Chonka, D.C.\*, Day, F.R.\*, Esko, T.\*, Fall, T.\*, Ferreira, T.\*, Gentilini, D.\*, Jackson, A.U.\*, Luan, J.\*, Randall, J.C.\*, Vedantam, S.\*, Willer, C.J.\*, Winkler, T.W.\*, Wood, A.R.\*, Workalemahu, T.\*, Hu, Y.J.\*, Lee, S.H.\*, Liang, L.\*, Lin, D.Y.\*, Min, J.L.\*, Neale, B.M.\*, Thorleifsson, G.\*, Yang, J.\*, Albrecht, E., Amin, N., Bragg-Gresham, J.L.\*, Cadby, G.\*, Den Heijer, M.\*, Eklund, N.\*, Fischer, K.\*, Goel, A.\*, Hottenga, J.J.\*, Huffman, J.E.\*, Jarick, I.\*, Johansson, A.\*, Johnson, T.\*, Kanoni, S.\*, Kleber, M.E.\*, König, I.R.\*, Kristiansson, K.\*, Kutalik, Z.\*, Lamina, C.\*, Lecoeur, C.\*, Li, G.\*, Mangino, M.\*, McArdle, W.L.\*, Medina-Gomez, C.\*, Müller-Nurasyid, M., Ngwa, J.S.\*, Nolte, I.M.\*, Paternoster, L.\*, Pechlivanis, S.\*, Perola, M.\*, Peters, M.J.\*, Preuss, M.\*, Rose, L.M.\*, Shi, J.\*, Shungin, D.\*, Smith, A.V.\*, Strawbridge, R.J.\*, Surakka, I.\*, Teumer, A.\*, Trip, M.D.\*, Tyrer, J.\*, van Vliet-Ostaptchouk, J.V.\*, Vandenput, L.\*, Waite, L.L.\*, Zhao, J.H.\*, Absher, D.\*, Asselbergs, F.W.\*, Atalay, M.\*, Attwood, A.P.\*, Balmforth, A.J.\*, Basart, H.\*, Beilby, J.\*, Bonnycastle, L.L.\*, Brambilla, P.\*, Bruinenberg, M.\*, Campbell, H.\*, Chasman, D.I.\*, Chines, P.S.\*, Collins, F.S.\*, Connell, J.M.\*, Cookson, W.O.\*, de Faire, U.\*, de Vegt, F.\*, Dei, M.\*, Dimitriou, M.\*, Edkins, S.\*, Estrada, K.\*, Evans, D.M.\*, Farrall, M.\*, Ferrario, M.M.\*, Ferrieres, J.\*, Franke, L.\*, Frau, F.\*, Gejman, P.V.\*, Grallert, H.H., Grönberg, H.\*, Gudnason, V.\*, Hall, A.S.\*, Hall, P.\*, Hartikainen, A.L.\*, Hayward, C.\*, Heard-Costa, N.L.\*, Heath, A.C.\*, Hebebrand, J.\*, Homuth, G.\*, Hu, F.B.\*, Hunt, S.E.\*, Hyppönen, E.\*, Iribarren, C.\*, Jacobs, K.B.\*, Jansson, J.O.\*, Jula, A.\*, Kähönen, M.\*, Kathiresan, S.\*, Kee, F.\*, Khaw, K.T.\*, Kivimaki, M.\*, Koenig, W.\*, Kraja, A.T.\*, Kumari, M.\*, Kuulasmaa, K.\*, Kuusisto, J.\*, Laitinen, J.H.\*, Lakka, T.A.\*, Langenberg, C.\*, Launer, L.J.\*, Lind, L.\*, Lindstrom, J.\*, Liu, J.\*, Liuzzi, A.\*, Lokki, M.L.\*, Lorentzon, M.\*, Madden, P.A.\*, Magnusson, P.K.\*, Manunta, P.\*, Marek, D.\*, Marz, W.\*, Mateo Leach, I.\*, McKnight, B.\*, Medland, S.E.\*, Mihailov, E.\*, Milani, L.\*, Montgomery, G.W.\*, Mooser, V.\*, Mühleisen, T.W.\*, Munroe, P.B.\*, Musk, A.W.\*, Narisu, N.\*, Navis, G.\*, Nicholson, G.\*, Nohr, E.A.\*, Ong, K.K.\*, Oostra, B.A.\*, Palmer, C.N.\*, Palotie, A.\*, Peden, J.F.\*, Pedersen, N.\*, Peters, A., Polasek, O.\*, Pouta, A.\*, Pramstaller, P.P.\*, Prokopenko, I.\*, Pütter, C.\*, Radhakrishnan, A.\*, Raitakari, O.\*, Rendon, A.\*, Rivadeneira, F.\*, Rudan, I.\*, Saaristo, T.E.\*, Sambrook, J.G.\*, Sanders, A.R.\*, Sanna, S.\*, Saramies, J.\*, Schipf, S.\*, Schreiber, S.\*, Schunkert, H.\*, Shin, S.Y.\*, Signorini, S.\*, Sinisalo, J.\*, Skrobek, B.\*, Soranzo, N.\*, Stancáková, A.\*, Stark, K.\*, Stephens, J.C.\*, Stirrups, K.\*, Stolk, R.P.\*, Stumvoll, M.\*, Swift, A.J.\*, Theodoraki, E.V.\*, Thorand, B., Tregouet, D.A.\*, Tremoli, E.\*, van der Klauw, M.M.\*, van Meurs, J.B.\*, Vermeulen, S.H.\*, Viikari, J.\*, Virtamo, J.\*, Vitart, V.\*, Waeber, G.\*, Wang, Z.\*, Widen, E.\*, Wild, S.H.\*, Willemsen, G.\*, Winkelmann, B.R.\*, Witteman, J.C.\*, Wolffenbuttel, B.H.\*, Wong, A.\*, Wright, A.F.\*, Zillikens, M.C.\*, Amouyel, P.\*, Boehm, B.O.\*, Boerwinkle, E.\*, Boomsma, D.I.\*, Caulfield, M.J.\*, Chanock, S.J.\*, Cupples, L.A.\*, Cusi, D.\*, Dedoussis, G.V.\*, Erdmann, J.\*, Eriksson, J.G.\*, Franks, P.W.\*, Froguel, P.\*, Gieger, C., Gyllensten, U.\*, Hamsten, A.\*, Harris, T.B.\*, Hengstenberg, C.\*, Hicks, A.A.\*, Hingorani, A.\*, Hinney, A.\*, Hofman, A.\*, Hovingh, K.G.\*, Hveem, K.\*, Illig, T., Jarvelin, M.R.\*, Jockel, K.H.\*, Keinanen-Kiukaanniemi, S.M.\*, Kiemeney, L.A.\*, Kuh, D.\*, Laakso, M.\*, Lehtimäki, T.\*, Levinson, D.F.\*, Martin, N.G.\*, Metspalu, A.\*, Morris, A.D.\*, Nieminen, M.S.\*, Njølstad, I.\*, Ohlsson, C.\*, Oldehinkel, A.J.\*, Ouwehand, W.H.\*, Palmer, L.J.\*, Penninx, B.\*, Power, C.\*, Province, M.A.\*, Psaty, B.M.\*, Qi, L.\*, Rauramaa, R.\*, Ridker, P.M.\*, Ripatti, S.\*, Salomaa, V.\*, Samani, N.J.\*, Snieder, H.\*, Sørensen, T.I.\*, Spector, T.D.\*, Stefansson, K.\*, Tönjes, A.\*, Tuomilehto, J.\*, Uitterlinden, A.G.\*, Uusitupa, M.\*, van der Harst, P.\*, Vollenweider, P.\*, Wallaschofski, H.\*, Wareham, N.J.\*, Watkins, H.\*, Wichmann, H.-E., Wilson, J.F.\*, Abecasis,

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

G.R.\*, Assimes, T.L.\*, Barroso, I.\*, Boehnke, M.\*, Borecki, I.B.\*, Deloukas, P.\*, Fox, C.S.\*, Frayling, T.\*, Groop, L.C.\*, Haritunian, T.\*, Heid, I.M., Hunter, D.\*, Kaplan, R.C.\*, Karpe, F.\*, Moffatt, M.F.\*, Mohlke, K.L.\*, O'Connell, J.R.\*, Pawitan, Y.\*, Schadt, E.E.\*, Schlessinger, D.\*, Steinthorsdottir, V.\*, Strachan, D.P.\*, Thorsteinsdottir, U.\*, van Duijn, C.M.\*, Visscher, P.M.\*, Di Blasio, A.M.\*, Hirschhorn, J.N.\*, Lindgren, C.M.\*, Morris, A.P.\*, Meyre, D.\*, Scherag, A.\*, McCarthy, M.I.\*, Speliotes, E.K.\*, North, K.E.\*, Loos, R.J.\*, Ingelsson, E.\*: Genome-wide meta-analysis identifies 11 new loci for anthropometric traits and provides insights into genetic architecture. *Nat. Genet.* 45, 501-512 (2013)

Bobu, M., Yediler, A., Siminiceanu, I.\*, Zhang, F.F.\*, Schulte-Hostede, S.: Comparison of different advanced oxidation processes for the degradation of two fluoroquinolone antibiotics in aqueous solutions. *J. Environ. Sci. Health Part A-Toxic/Hazard. Subst. Environ. Eng.* **48**, 251-262 (2013)

Bolduan, S.\*, Hubel, P.\*, Reif, T.\*, Lodermeyer, V.\*, Höhne, K., Fritz, J.V.\*, Sauter, D.\*, Kirchhoff, F.\*, Fackler, O.T.\*, Schindler, M., Schubert, U.\*: HIV-1 Vpu affects the anterograde transport and the glycosylation pattern of NTB-A. *Virology* **440**, 190-203 (2013)

Bongaerts, B.W.\*, Rathmann, W.\*, Heier, M., Kowall, B.\*, Herder, C.\*, Stöckl, D., Meisinger, C., Ziegler, D.\*: Older subjects with diabetes and prediabetes are frequently unaware of having distal sensorimotor polyneuropathy: The KORA F4 study. *Diabetes Care* **36**, 1141-1146 (2013)

Bonnefond, A.\*, Clément, N.\*, Fawcett, K.\*, Yengo, L.\*, Vaillant, E.\*, Guillaume, J.L.\*, Dechaume, A.\*, Payne, F.\*, Roussel, R.\*, Czernichow, S.\*, Hercberg, S.\*, Hadjadj, S.\*, Balkau, B.\*, Marre, M.\*, Lantieri, O.\*, Langenberg, C.\*, Bouatia-Naji, N.\*, MAGIC Investigators (Grallert, H.H., Meisinger, C., Thorand, B., Wichmann, H.-E., Illig, T., Gieger, C.), Charpentier, G.\*, Vaxillaire, M.\*, Rocheleau, G.\*, Wareham, N.J.\*, Sladek, R.\*, McCarthy, M.I.\*, Dina, C.\*, Barroso, I.\*, Jockers, R.\*, Froguel, P.\*: Rare *MTNR1B* variants impairing melatonin receptor 1B function contribute to type 2 diabetes. *Nat. Genet.* **44**, 297-301 (2012)

Bønnelykke, K.\*, Matheson, M.C.\*, Pers, T.H.\*, Granell, R.\*, Strachan, D.P.\*, Alves, A.C.\*, Linneberg, A.\*, Curtin, J.A.\*, Warrington, N.M.\*, Standl, M., Kerkhof, M.\*, Jonsdottir, I.\*, Bukvic, B.K.\*, Kaakinen, M.\*, Sleimann, P.\*, Thorleifsson, G.\*, Thorsteinsdottir, U.\*, Schramm, K., Baltic, S.\*, Kreiner-Møller, E.\*, Simpson, A.\*, Pourcain, B.S.\*, Coin, L.\*, Hui, J.\*, Walters, E.H.\*, Tiesler, C.M.T., Duffy, D.L.\*, Jones, G.\*, Australian Asthma Genetics Consortium (AAGC), Ring, S.M.\*, McArdle, W.L.\*, Price, L.\*, Robertson, C.F.\*, Pekkanen, J.\*, Tang, C.S.\*, Thiering, E., Montgomery, G.W.\*, Hartikainen, A.L.\*, Dharmage, S.C.\*, Husemoen, L.L.\*, Herder, C.\*, Kemp, J.P.\*, Elliot, P.\*, James, A.\*, Waldenberger, M., Abramson, M.J.\*, Fairfax, B.P.\*, Knight, J.C.\*, Gupta, R.\*, Thompson, P.J.\*, Holt, P.\*, Sly, P.\*, Hirschhorn, J.N.\*, Blekic, M.\*, Weidinger, S.\*, Hakonarsson, H.\*, Stefansson, K.\*, Heinrich, J., Postma, D.S.\*, Custovic, A.\*, Pennell, C.E.\*, Jarvelin, M.R.\*, Koppelman, G.H.\*, Timpson, N.\*, Ferreira, M.A.\*, Bisgaard, H.\*, EArly Genetics & Lifecourse Epidemiology (EAGLE) Consortium, Henderson, A.J.\*: Meta-analysis of genome-wide association studies identifies ten loci influencing allergic sensitization. *Nat. Genet.* **45**, 902-906 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Bonzheim, I., Irmler, M., Klier-Richter, M., Steinhilber, J.\*, Anastasov, N., Schafer, S.\*, Adam, P.\*, Beckers, J., Raffeld, M.\*, Fend, F.\*, Quintanilla-Martinez, L.: Identification of C/EBPβ target genes in ALK+ Anaplastic Large Cell Lymphoma (ALCL) by gene expression profiling and chromatin immunoprecipitation. *PLoS ONE* **8**:e64544 (2013)

Borsig, L.\*, Wolf, M.J.\*, Roblek, M.\*, Lorentzen, A.R., Heikenwälder, M.: Inflammatory chemokines and metastasis - tracing the accessory. *Oncogene*, DOI:10.1038/onc.2013.272 (2013)

Boudier, A.\*, Curjuric, I.\*, Basagana, X.\*, Hazgui, H.\*, Antò, J.M.\*, Bousquet, J.\*, Bridevaux, P.O.\*, Dupuis-Lozeron, E.\*, Garcia-Aymerich, J.\*, Heinrich, J., Janson, C.\*, Künzli, N.\*, Leynaert, B.\*, de Marco, R.\*, Rochat, T.\*, Schindler, C.\*, Varraso, R.\*, Pin, I.\*, Probst-Hensch, N.\*, Sunyer, J.\*, Kauffmann, F.\*, Siroux, V.\*: Ten-year follow-up of cluster-based asthma phenotypes in adults. A pooled analysis of three cohorts. *Am. J. Respir. Crit. Care Med.* **188**, 550-560 (2013)

Bousquet, J.\*, Anto, J.\*, Sunyer, J.\*, Nieuwenhuijsen, M.\*, Vrijheid, M.\*, Keil, T.\*, MeDALL Study Group, CHICOS Study Group, GA2LEN Study Group, ENRIECO Consortium (Heinrich, J.): Pooling birth cohorts in allergy and asthma: European Union-funded initiatives - a MeDALL, CHICOS, ENRIECO, and GA<sup>2</sup>LEN joint paper. *Int. Arch. Allergy Immunol.* **161**, 1-10 (2013)

Brandner, S., Eberhagen, C., Lichtmannegger, J., Hieber, L., Andrae, U.: TCDD induces the expression of insulin-like growth factor binding protein 4 in 5L rat hepatoma cells: A cautionary tale of the use of this cell line in studies on dioxin toxicity. *Toxicology* **309**, 107-116 (2013)

Braumüller, H.\*, Wieder, T.\*, Brenner, E.\*, Aßmann, S.\*, Hahn, M.\*, Alkhaled, M.\*, Schilbach, K.\*, Essmann, F.\*, Kneilling, M.\*, Griessinger, C.\*, Ranta, F.\*, Ullrich, S.\*, Mocikat, R., Braungart, K.\*, Mehra, T.\*, Fehrenbacher, B.\*, Berdel, J.\*, Niessner, H.\*, Meier, F.\*, van den Broek, M.\*, Häring, H.-U.\*, Handgretinger, R.\*, Quintanilla-Martinez, L.\*, Fend, F.\*, Pesic, M.\*, Bauer, J.\*, Zender, L.\*, Schaller, M.\*, Schulze-Osthoff, K.\*, Röcken, M.\*: T-helper-1-cell cytokines drive cancer into senescence. *Nature* **494**, 361-365 (2013)

Breitfeld, J.\*, Tönjes, A.\*, Böttcher, Y.\*, Schleinitz, D.\*, Wiele, N.\*, Marzi, C., Brockhaus, C., Rathmann, W.\*, Huth, C., Grallert, H.H., Illig, T., Blüher, M.\*, Kovacs, P.\*, Stumvoll, M.\*: Genetic variation in the *vaspin* gene affects circulating serum vaspin concentrations. *Int. J. Obes.* **37**, 861-866 (2013)

Brenner, D.R.\*, Brennan, P.\*, Boffetta, P.\*, Amos, C.I.\*, Spitz, M.R.\*, Chen, C.\*, Goodman, G.\*, Heinrich, J., Bickeböller, H.\*, Rosenberger, A.\*, Risch, A.\*, Muley, T.\*, McLaughlin, J.R.\*, Benhamou, S.\*, Bouchardy, C.\*, Lewinger, J.P.\*, Witte, J.S.\*, Chen, G.\*, Bull, S.\*, Hung, R.J.\*: Hierarchical modeling identifies novel lung cancer susceptibility variants in inflammation pathways among 10,140 cases and 11,012 controls. *Hum. Genet.* **132**, 579-589 (2013)

Brinkhaus, B.\*, Ortiz, M.\*, Witt, C.M.\*, Roll, S.\*, Linde, K.\*, Pfab, F., Niggemann, B.\*, Hummelsberger, J.\*, Treszl, A.\*, Ring, J.\*, Zuberbier, T.\*, Wegscheider, K.\*, Willich, S.N.\*: Acupuncture in patients with seasonal allergic rhinitis: A randomized trial. *Ann. Intern. Med.* **158**, 225-234 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Brockow, K., Garvey, L.H.\*, Aberer, W.\*, Atanaskovic-Markovic, M.\*, Barbaud, A.\*, Bilo, M.B.\*, Bircher, A.\*, Blanca, M.\*, Bonadonna, B.\*, Campi, P.\*, Castro, E.\*, Cernadas, J.R.\*, Chiriac, A.M.\*, Demoly, P.\*, Grosber, M.\*, Gooi, J.\*, Lombardo, C.\*, Mertes, P.M.\*, Mosbech, H.\*, Nasser, S.\*, Pagani, M.\*, Ring, J.\*, Romano, A.\*, Scherer, K.\*, Schnyder, B.\*, Testi, S.\*, Torres, M.\*, Trautmann, A.\*, Terreehorst, I.\*: Skin test concentrations for systemically administered drugs - an ENDA/EAACI Drug Allergy Interest Group position paper. *Allergy* **68**, 702-712 (2013)

Brockow, K., Ring, J.: Akuttherapie und Management der Anaphylaxie. Hautarzt 64, 81-87 (2013)

Brockow, K.: Mastzellaktivierungssyndrome. Hautarzt 64, 102-106 (2013)

Broer, L.\*, Codd, V.\*, Nyholt, D.R.\*, Deelen, J.\*, Mangino, M.\*, Willemsen, G.\*, Albrecht, E., Amin, N.\*, Beekman, M.\*, de Geus, E.J.\*, Henders, A.\*, Nelson, C.P.\*, Steves, C.J.\*, Wright, M.J.\*, de Craen, A.J.\*, Isaacs, A.\*, Matthews, M.\*, Moayyeri, A.\*, Montgomery, G.W.\*, Oostra, B.A.\*, Vink, J.M.\*, Spector, T.D.\*, Slagboom, P.E.\*, Martin, N.G.\*, Samani, N.J.\*, van Duijn, C.M.\*, Boomsma, D.I.\*: Meta-analysis of telomere length in 19713 subjects reveals high heritability, stronger maternal inheritance and a paternal age effect. *Eur. J. Hum. Genet.* **21**, 1163-1168 (2013)

Bronevetsky, Y.\*, Villarino, A.V.\*, Eisley, C.J.\*, Barbeau, R.\*, Barczak, A.J.\*, Heinz, G.A., Kremmer, E., Heissmeyer, V., McManus, M.T.\*, Erle, D.J.\*, Rao, A.\*, Ansel, K.M.\*: T cell activation induces proteasomal degradation of Argonaute and rapid remodeling of the microRNA repertoire. *J. Exp. Med.* **210**, 417-432 (2013)

Brüske, I., Thiering, E., Heinrich, J., Huster, K.M.\*, Nowak, D.\*: Biopersistent granular dust and chronic obstructive pulmonary disease: A systematic review and meta-analysis. *PLoS ONE* **8**:e80977 (2013)

Brüske, I., Standl, M., Weidinger, S.\*, Klümper, C.\*, Hoffmann, B.\*, Schaaf, B.\*, Herbarth, O.\*, Lehmann, I.\*, von Berg, A.\*, Berdel, D.\*, Bauer, C.P.\*, Koletzko, S.\*, Heinrich, J.: Epidemiology of urticaria in infants and young children in Germany - results from the German LISAplus and GINIplus birth cohort studies. *Pediatr. Allergy Immunol.* **25**, 36–42 (2014) [published online 2013]

Bücher, K.\*, Neumann, C.\*, Thiering, E., Hickel, R.\*, Kuhnisch, J.\*: Complications and survival rates of teeth after dental trauma over a 5-year period. *Clin. Oral Investig.* **17**, 1311-1318 (2013)

Buchholz, V.R.\*, Flossdorf, M.\*, Hensel, I.\*, Kretschmer, L.\*, Weissbrich, B.\*, Gräf, P.\*, Verschoor, A.\*, Schiemann, M., Höfer, T.\*, Busch, D.H.: Disparate individual fates compose robust CD8<sup>+</sup> T cell immunity. *Science* **340**, 630-635 (2013)

Buchmann, P.\*, Dembek, C.J., Kuklick, L.\*, Jager, C.\*, Tedjokusumo, R., von Freyend, M.J.\*, Drebber, U.\*, Janowicz, Z.\*, Melber, K.\*, Protzer, U.: A novel therapeutic hepatitis B vaccine induces cellular and humoral immune responses and breaks tolerance in Hepatitis B Virus (HBV) transgenic mice. *Vaccine* **31**, 1197-1203 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Buck, D.\*, Albrecht, E., Aslam, M.\*, Goris, A.\*, Hauenstein, N.\*, Jochim, A.\*, International Multiple Sclerosis Genetics Consortium, Wellcome Trust Case Control Consortium 2, Cepok, S.\*, Grummel, V.\*, Dubois, B.\*, Berthele, A.\*, Lichtner, P., Gieger, C., Winkelmann, J., Hemmer, B.\*: Genetic variants in the immunoglobulin heavy chain locus are associated with the IgG index in multiple sclerosis. *Ann. Neurol.* **73**, 86-94 (2013)

Buhmann, R., Stanglmaier, M.\*, Hess, J.\*, Lindhofer, H.\*, Peschel, C.\*, Kolb, H.-J.: Immunotherapy with FBTA05 (Bi20), a trifunctional bispecific anti-CD3 x anti-CD20 antibody and donor lymphocyte infusion (DLI) in relapsed or refractory B-cell lymphoma after allogeneic stem cell transplantation: Study protocol of an investigator-driven, open-label, non-randomized, uncontrolled, dose-escalating Phase I/II-trial. *J. Transl. Med.* **11**:160 (2013)

Bund, D., Buhmann, R., Gökmen, F., Zorn, J., Kolb, H.-J., Schmetzer, H.M.\*: Minor histocompatibility antigen UTY as target for graft-versus-leukemia and graft-versus-haematopoiesis in the canine model. *Scand. J. Immunol.* **77**, 39-53 (2013)

Burger, K., Mühl, B., Kellner, M., Rohrmoser, M., Gruber-Eber, A., Windhager, L.\*, Friedel, C.C.\*, Dölken, L.\*, Eick, D.: 4-thiouridine inhibits rRNA synthesis and causes a nucleolar stress response. *RNA Biol.* **10**, 1623-1630 (2013)

Burger, K., Mühl, B., Rohrmoser, M., Coordes, B.\*, Heidemann, M., Kellner, M., Gruber-Eber, A., Heissmeyer, V., Strässer, K.\*, Eick, D.: Cyclin-dependent kinase 9 links RNA polymerase II transcription to processing of ribosomal RNA. *J. Biol. Chem.* **288**, 21173-21183 (2013)

Burger, K., Eick, D.: Functional ribosome biogenesis is a prerequisite for p53 destabilization: Impact of chemotherapy on nucleolar functions and RNA metabolism. *Biol. Chem.* **394**, 1133-1143 (2013)

Burghardt, T.\*, Kastner, J.\*, Suleiman, H.\*, Rivera-Milla, E.\*, Stepanova, N.\*, Lottaz, C.\*, Kubitza, M.\*, Böger, C.A.\*, Schmidt, S.\*, Gorski, M.\*, de Vries, U.\*, Schmidt, H.\*, Hertting, I.\*, Kopp, J.\*, Rascle, A.\*, Moser, M.\*, Heid, I.M., Warth, R.\*, Spang, R.\*, Wegener, J., Mierke, C.T.\*, Englert, C.\*, Witzgall, R.\*: LMX1B is essential for the maintenance of differentiated podocytes in adult kidneys. *J. Am. Soc. Nephrol.* **24**, 1830-1848 (2013)

Burgstaller, G., Oehrle, B., Koch, I.\*, Lindner, M.\*, Eickelberg, O.: Multiplex profiling of cellular invasion in 3D cell culture models. *PLoS ONE* **8**:e63121 (2013)

Burkart, K.\*, Canario, P.\*, Breitner, S., Schneider, A.E., Scherber, K.\*, Andrade, H.\*, Alcoforado, M.J.\*, Endlicher, W.\*: Interactive short-term effects of equivalent temperature and air pollution on human mortality in Berlin and Lisbon. *Environ. Pollut.* **183**, 54-63 (2013)

Canis, M.\*, Lechner, A.\*, Mack, B.\*, Zengel, P.\*, Laubender, R.P.\*, Koehler, U.\*, Heissmeyer, V., Gires, O.: CD133 induces tumour-initiating properties in HEK293 cells. *Tumor Biol.* **34**, 437-443 (2013)

Canis, M.\*, Lechner, A.\*, Mack, B.\*, Zengel, P.\*, Laubender, R.P.\*, Koehler, U.\*, Heissmeyer, V., Gires, O.: CD133 is a predictor of poor survival in head and neck squamous cell carcinomas. *Cancer Biomark.* **12**, 97-105 (2012)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Canova, C.\*, Heinrich, J., Antò, J.M.\*, Leynaert, B.\*, Smith, M.\*, Kuenzli, N.\*, Zock, J.P.\*, Janson, C.\*, Cerveri, I., de Marco, R.\*, Torén, K.\*, Gislason, T.\*, Nowak, D.\*, Pin, I.\*, Wjst, M., Manfreda, J.\*, Svanes, C.\*, Crane, J.\*, Abramson, M.\*, Burr, M.\*, Burney, P.\*, Jarvis, D.\*: The influence of sensitisation to pollens and moulds on seasonal variations in asthma attacks. *Eur. Respir. J.* 42, 935-945 (2013)

Carsin, A.-E.\*, Zock, J.P.\*, Jarvis, D.\*, Basagana, X.\*, Heinrich, J., Torén, K.\*, Janson, C.\*, Antò, J.M.\*, Sunyer, J.\*: Serum total immunoglobulin E is a surrogate of atopy in adult-onset asthma: A longitudinal study. *Int. Arch. Allergy Immunol.* **160**, 387-392 (2013)

Casas, L.\*, Torrent, M.\*, Zock, J.P.\*, Doekes, G.\*, Forns, J.\*, Guxens, M.\*, Täubel, M.\*, Heinrich, J., Sunyer, J.\*: Early life exposures to home dampness, pet ownership and farm animal contact and neuropsychological development in 4 year old children: A prospective birth cohort study. *Int. J. Hyg. Environ. Health.* **216**, 690-697 (2013)

Casas, L.\*, Tischer, C.G., Wouters, I.M.\*, Torrent, M.\*, Gehring, U.\*, García-Esteban, R.\*, Thiering, E., Postma, D.S.\*, de Jongste, J.\*, Smit, H.A.\*, Borras-Santos, A.\*, Zock, J.P.\*, Hyvärinen, A.\*, Heinrich, J., Sunyer, J.\*: Early life microbial exposure and fractional exhaled nitric oxide in schoolage children: A prospective birth cohort study. *Environ. Health* **12**:103 (2013)

Casas, L.\*, Tischer, C.G., Wouters, I.M.\*, Valkonen, M.\*, Gehring, U.\*, Doekes, G.\*, Torrent, M.\*, Pekkanen, J.\*, García-Esteban, R.\*, Hyvärinen, A.\*, Heinrich, J., Sunyer, J.\*: Endotoxin, extracellular polysaccharides, and  $\beta$ (1-3)-glucan concentrations in dust and their determinants in four European birth cohorts: Results from the HITEA project. *Indoor Air* **23**, 208-218 (2013)

Casas, L., Tiesler, C.M.T., Thiering, E., Brüske, I., Koletzko, S.\*, Bauer, C.-P.\*, Wichmann, H.-E., von Berg, A.\*, Berdel, D.\*, Krämer, U.\*, Schaaf, B., Lehmann, I., Herbarth, O.\*, Sunyer, J.\*, Heinrich, J.: Indoor factors and behavioural problems in children: The GINIplus and LISAplus birth cohort studies. *Int. J. Hyg. Environ. Health.* **216**, 146-154 (2013)

Chang, X.\*, Xu, T., Li, Y.\*, Wang, K.\*: Dynamic modular architecture of protein-protein interaction networks beyond the dichotomy of 'date' and 'party' hubs. *Sci. Rep.* **3**:1691 (2013)

Chaves-Perez, A., Mack, B.\*, Maetzel, D.\*, Kremling, H., Eggert, C., Harréus, U.\*, Gires, O.: EpCAM regulates cell cycle progression via control of cyclin D1 expression. *Oncogene* **32**, 641-650 (2013)

Ching, W.\*, Koyuncu, E.\*, Singh, S.\*, Arbelo-Roman, C.\*, Härtl, B.\*, Kremmer, E., Speiseder, T.\*, Meier, C.\*, Dobner, T.\*: A ubiquitin-specific protease possesses a decisive role for adenovirus replication and oncogene-mediated transformation. *PLoS Pathog.* **9**:e1003273 (2013)

Cifuentes, L.\*, Kiritsi, D.\*, Chen, W.\*, Pennino, J., Ring, J.\*, Weidinger, S.\*, Has, C.\*: A case of junctional epidermolysis bullosa with prurigo-like lesions and reduction of collagen XVII and filaggrin. *Br. J. Dermatol.* **169**, 195-198 (2013)

Cifuentes, L., Ring, J.\*, Brockow, K.: Clonal mast cell activation syndrome with anaphylaxis to sulfites. *Int. Arch. Allergy Immunol.* **162**, 94-96 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Cifuentes, L.\*, Vosseler, S.\*, Blank, S.\*, Seismann, H.\*, Pennino, D., Darsow, U.\*, Bredehorst, R.\*, Ring, J.\*, Mempel, M.\*, Spillner, E.\*, Ollert, M.W.\*: Identification of Hymenoptera venom-allergic patients with negative specific IgE to venom extract by using recombinant allergens. *J. Allergy Clin. Immunol.* **133**, 909–910 (2013)

Claessen, H.\*, Strassburger, K.\*, Tepel, M.\*, Waldeyer, R.\*, Chernyak, N.\*, Jülich, F.\*, Albers, B.\*, Bächle, C.\*, Rathmann, W.\*, Meisinger, C., Thorand, B., Hunger, M., Schunk, M., Stark, R., Rückert, I.M., Peters, A., Huth, C., Stöckl, D., Giani, G.\*, Holle, R., Icks, A.\*: Medication costs by glucose tolerance stage in younger and older women and men: Results from the population-based KORA survey in Germany. *Exp. Clin. Endocrinol. Diabet.* **121**, 614-623 (2013)

Codd, V.\*, Nelson, C.P.\*, Albrecht, E., Mangino, M.\*, Deelen, J.\*, Buxton, J.L.\*, Hottenga, J.J.\*, Fischer, K.\*, Esko, T.\*, Surakka, I.\*, Broer, L.\*, Nyholt, D.R.\*, Mateo Leach, I.\*, Salo, P.\*, Hägg, S.\*, Matthews, M.K.\*, Palmen, J.\*, Norata, G.D.\*, O'Reilly, P.F.\*, Saleheen, D.\*, Amin, N.\*, Balmforth, A.J.\*, Beekman, M.\*, de Boer, R.A.\*, Böhringer, S.\*, Braund, P.S.\*, Burton, P.R.\*, Craen, A.J.\*, Denniff, M.\*, Dong, Y.\*, Douroudis, K.\*, Dubinina, E.\*, Eriksson, J.G.\*, Garlaschelli, K.\*, Guo, D.\*, Hartikainen, A.L.\*, Henders, A.K.\*, Houwing-Duistermaat, J.J.\*, Kananen, L.\*, Karssen, L.C.\*, Kettunen, J.\*, Klopp, N., Lagou, V.\*, van Leeuwen, E.M.\*, Madden, P.A.\*, Mägi, R.\*, Magnusson, P.K.\*, Männisto, S.\*, McCarthy, M.I.\*, Medland, S.E.\*, Mihailov, E.\*, Montgomery, G.W.\*, Oostra, B.A.\*, Palotie, A.\*, Peters, A., Pollard, H.\*, Pouta, A.\*, Prokopenko, I.\*, Ripatti, S.\*, Salomaa, V.\*, Suchiman, H.E.\*, Valdes, A.M.\*, Verweij, N.\*, Viñuela, A.\*, Wang, X.\*, Wichmann, H.-E., Widen, E.\*, Willemsen, G.\*, Wright, M.J.\*, Xia, K.\*, Xiao, X.\*, van Veldhuisen, D.J.\*, Catapano, A.L.\*, Tobin, M.D.\*, Hall, A.S.\*, Blakemore, A.I.\*, van Gilst, W.H.\*, Zhu, H.\*, CARDIoGRAM Consortium (Peters, A., Wichmann, H.-E., Döring, A., Meitinger, T., Illig, T., Klopp, N.B., Meisinger, C.), Erdmann, J.\*, Reilly, M.P.\*, Kathiresan, S.\*, Schunkert, H.\*, Talmud, P.J.\*, Pedersen, N.L.\*, Perola, M.\*, Ouwehand, W.\*, Kaprio, J.\*, Martin, N.G.\*, van Duijn, C.M.\*, Hovatta, I.\*, Gieger, C., Metspalu, A.\*, Boomsma, D.I.\*, Jarvelin, M.R.\*, Slagboom, P.E.\*, Thompson, J.R.\*, Spector, T.D.\*, van der Harst, P.\*, Samani, N.J.\*: Identification of seven loci affecting mean telomere length and their association with disease. Nat. Genet. 45, 422-427 (2013)

Conde, J.\*, Tian, F., Hernandez, Y.\*, Bao, C., Cui, D.\*, Janssen, K.P.\*, Ibarra, M.R.\*, Baptista, P.V.\*, Stoeger, T., de la Fuente, J.M.\*: *In vivo* tumor targeting via nanoparticle-mediated therapeutic siRNA coupled to inflammatory response in lung cancer mouse models. *Biomaterials* **34**, 7744-7753 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Cousminer, D.L.\*, Berry, D.J.\*, Timpson, N.J.\*, Ang, W.\*, Thiering, E., Byrne, E.M.\*, Taal, H.R.\*, Huikari, V.\*, Bradfield, J.P.\*, Kerkhof, M.\*, Groen-Blokhuis, M.M.\*, Kreiner-Møller, E.\*, Marinelli, M.\*, Holst, C.\*, Leinonen, J.T.\*, Perry, J.R.\*, Surakka, I.\*, Pietiläinen, O.\*, Kettunen, J.\*, Anttila, V.\*, Kaakinen, M.\*, Sovio, U.\*, Pouta, A.\*, Das, S.\*, Lagou, V.\*, Power, C.\*, Prokopenko, I.\*, Evans, D.M.\*, Kemp, J.P.\*, St Pourcain, B.\*, Ring, S.\*, Palotie, A.\*, Kajantie, E.\*, Osmond, C.\*, Lehtimäki, T.\*, Viikari, J.S.\*, Kähönen, M.\*, Warrington, N.M.\*, Lye, S.J.\*, Palmer, L.J.\*, Tiesler, C.M.T., Flexeder, C., Montgomery, G.W.\*, Medland, S.E.\*, Hofman, A.\*, Hakonarson, H.\*, Guxens, M.\*, Bartels, M.\*, Salomaa, V.\*, RepoGen Consortium, Murabito, J.M.\*, Kaprio, J.\*, Sørensen, T.I.\*, Ballester, F.\*, Bisgaard, H.\*, Boomsma, D.I.\*, Koppelman, G.H.\*, Grant, S.F.\*, Jaddoe, V.W.\*, Martin, N.G.\*, Heinrich, J., Pennell, C.E.\*, Raitakari, O.T.\*, Eriksson, J.G.\*, Smith, G.D.\*, Hyppönen, E.\*, Jarvelin, M.R.\*, McCarthy, M.I.\*, Ripatti, S.\*, Widen, E.\*, Early Growth Genetics Consortium: Genome-wide association and longitudinal analyses reveal genetic loci linking pubertal height growth, pubertal timing and childhood adiposity. *Hum. Mol. Genet.* 22, 2735-2747 (2013)

Crippa, M.\*, DeCarlo, P.F.\*, Slowik, J.G.\*, Mohr, C.\*, Heringa, M.F.\*, Chirico, R.\*, Poulain, L.\*, Freutel, F.\*, Sciare, J.\*, Cozic, J.\*, Di Marco, C.F.\*, Elsasser, M., Nicolas, J.B.\*, Marchand, N.\*, Abidi, E.\*, Wiedensohler, A.\*, Drewnick, F.\*, Schneider, J.\*, Borrmann, S.\*, Nemitz, E.\*, Zimmermann, R., Jaffrezo, J.-L.\*, Prevot, A.S.H.\*, Baltensperger, U.\*: Wintertime aerosol chemical composition and source apportionment of the organic fraction in the metropolitan area of Paris. *Atmos. Chem. Phys.* **13**, 961-981 (2013)

Czamara, D.\*, Tiesler, C.M.T., Kohlböck, G., Berdel, D.\*, Hoffmann, B.\*, Bauer, C.P.\*, Koletzko, S.\*, Schaaf, B.\*, Lehmann, I.\*, Herbarth, O.\*, von Berg, A.\*, Müller-Myhsok, B.\*, Schulte-Körne, G.\*, Heinrich, J.: Children with ADHD symptoms have a higher risk for reading, spelling and math difficulties in the GINIplus and LISAplus cohort studies. *PLoS ONE* **8**:e63859 (2013)

Dastani, Z.\*, Johnson, T.\*, Kronenberg, F.\*, Nelson, C.P.\*, Assimes, T.L.\*, Marz, W.\*, CARDIOGRAM Consortium (Wichmann, H.-E., Döring, A., Illig, T., Klopp, N.B., Peters, A., Meisinger, C., Meitinger, T.), ADIPOGen Consortium, Richards, J.B.\*: The shared allelic architecture of adiponectin levels and coronary artery disease. *Atherosclerosis* **229**, 145-148 (2013)

de Hoogh, K.\*, Wang, M.\*, Adam, M.\*, Badaloni, C.\*, Beelen, R.\*, Birk, M., Cesaroni, G.\*, Cirach, M.\*, Declercq, C.\*, Dedele, A.\*, Dons, E.\*, de Nazelle, A.\*, Eeftens, M.\*, Eriksen, K.\*, Eriksson, C.\*, Fischer, P.\*, Grazuleviciene, R.\*, Gryparis, A.\*, Hoffmann, B.\*, Jerrett, M.\*, Katsouyanni, K.\*, Iakovides, M.\*, Lanki, T.\*, Lindley, S.\*, Madsen, C.\*, Mölter, A.\*, Mosler, G.\*, Nádor, G.\*, Nieuwenhuijsen, M.\*, Pershagen, G.\*, Peters, A., Phuleria, H.\*, Probst-Hensch, N.\*, Raaschou-Nielsen, O.\*, Quass, U.\*, Ranzi, A.\*, Stephanou, E.\*, Sugiri, D.\*, Schwarze, P.\*, Tsai, M.Y.\*, Yli-Tuomi, T.\*, Varró, M.J.\*, Vienneau, D.\*, Weinmayr, G.\*, Brunekreef, B.\*, Hoek, G.\*: Development of land use regression models for particle composition in twenty study areas in Europe. *Environ. Sci. Technol.* **47**, 5778-5786 (2013)

de Jong, S.J.\*, Albrecht, J.-C.\*, Giehler, F., Kieser, A., Sticht, H.\*, Biesinger, B.\*: Noncanonical NF-κB activation by the oncoprotein Tio occurs through a nonconserved TRAF3-binding motif. *Sci. Signal.* **6**:ra27 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

de la Vega, L.\*, Hornung, J.\*, Kremmer, E., Milanovic, M.\*, Schmitz, M.L.\*: Homeodomain-interacting protein kinase 2-dependent repression of myogenic differentiation is relieved by its caspase-mediated cleavage. *Nucleic Acids Res.* **41**, 5731-5745 (2013)

Del Fresno, C.\*, Soulat, D.\*, Roth, S.\*, Blazek, K.\*, Udalova, I.\*, Sancho, D.\*, Ruland, J., Ardavín, C.\*: Interferon-β production via Dectin-1-Syk-IRF5 signaling in dendritic cells is crucial for immunity to *C. albicans. Immunity* **38**, 1176-1186 (2013)

Deloukas, P.\*, Kanoni, S.\*, Willenborg, C.\*, Farrall, M.\*, Assimes, T.L.\*, Thompson, J.R.\*, Ingelsson, E.\*, Saleheen, D.\*, Erdmann, J.\*, Goldstein, B.A.\*, Stirrups, K.\*, König, I.R.\*, Cazier, J.B.\*, Johansson, A.\*, Hall, A.S.\*, Lee, J.Y.\*, Willer, C.J.\*, Chambers, J.C.\*, Esko, T.\*, Folkersen, L.\*, Goel, A.\*, Grundberg, E.\*, Havulinna, A.S.\*, Ho, W.K.\*, Hopewell, J.C.\*, Eriksson, N.\*, Kleber, M.E.\*, Kristiansson, K.\*, Lundmark, P.\*, Lyytikäinen, L.P.\*, Rafelt, S.\*, Shungin, D.\*, Strawbridge, R.J.\*, Thorleifsson, G.\*, Tikkanen, E.\*, van Zuydam, N.\*, Voight, B.F.\*, Waite, L.L.\*, Zhang, W.H.\*, Ziegler, A.\*, Absher, D.\*, Altshuler, D.\*, Balmforth, A.J.\*, Barroso, I.\*, Braund, P.S.\*, Burgdorf, C.\*, Claudi-Boehm, S.\*, Cox, D.\*, Dimitriou, M.\*, Do, R.\*, Doney, A.S.F.\*, El Mokhtari, N.\*, Eriksson, P.\*, Fischer, K.\*, Fontanillas, P.\*, Franco-Cereceda, A.\*, Gigante, B.\*, Groop, L.\*, Gustafsson, S.\*, Hager, J.\*, Hallmans, G.\*, Han, B.G.\*, Hunt, S.E.\*, Kang, H.M.\*, Illig, T.\*, Kessler, T.\*, Knowles, J.W.\*, Kolovou, G.\*, Kuusisto, J.\*, Langenberg, C.\*, Langford, C.\*, Leander, K.\*, Lokki, M.L.\*, Lundmark, A.\*, McCarthy, M.I.\*, Meisinger, C., Melander, O.\*, Mihailov, E.\*, Maouche, S.\*, Morris, A.D.\*, Müller-Nurasyid, M., Nikus, K.\*, Peden, J.F.\*, Rayner, N.W.\*, Rasheed, A.\*, Rosinger, S.\*, Rubin, D.\*, Rumpf, M.P.\*, Schäfer, A.\*, Sivananthan, M.\*, Song, C.\*, Stewart, A.F.R.\*, Tan, S.T.\*, Thorgeirsson, G.\*, van der Schoot, C.E.\*, Wagner, P.J.\*, Wells, G.A.\*, Wild, P.S.\*, Yang, T.P.\*, Amouyel, P.\*, Arveiler, D.\*, Basart, H.\*, Boehnke, M.\*, Boerwinkle, E.\*, Brambilla, P.\*, Cambien, F.\*, Cupples, A.L.\*, de Faire, U.\*, Dehghan, A.\*, Diemert, P.\*, Epstein, S.E.\*, Evans, A.\*, Ferrario, M.M.\*, Ferrieres, J.\*, Gauguier, D.\*, Go, A.S.\*, Goodall, A.H.\*, Gudnason, V.\*, Hazen, S.L.\*, Holm, H.\*, Iribarren, C.\*, Jang, Y.\*, Kähönen, M.\*, Kee, F.\*, Kim, H.S.\*, Klopp, N.\*, Koenig, W.\*, Kratzer, W.\*, Kuulasmaa, K.\*, Laakso, M.\*, Laaksonen, R.\*, Lind, L.\*, Ouwehand, W.H.\*, Parish, S.\*, Park, J.E.\*, Pedersen, N.L.\*, Peters, A., Quertermous, T.\*, Rader, D.J.\*, Salomaa, V.\*, Schadt, E.\*, Shah, S.H.\*, Sinisalo, J.\*, Stark, K.\*, Stefansson, K.\*, Tregouet, D.A.\*, Virtamo, J.\*, Wallentin, L.\*, Wareham, N.\*, Zimmermann, M.E.\*, Nieminen, M.S.\*, Hengstenberg, C.\*, Sandhu, M.S.\*, Pastinen, T.\*, Syvanen, A.C.\*, Hovingh, G.K.\*, Dedoussis, G.\*, Franks, P.W.\*, Lehtimäki, T.\*, Metspalu, A.\*, Zalloua, P.A.\*, Siegbahn, A.\*, Schreiber, S.\*, Ripatti, S.\*, Blankenberg, S.S.\*, Perola, M.\*, Clarke, R.\*, Boehm, B.O.\*, O'Donnell, C.\*, Reilly, M.P.\*, Marz, W.\*, Collins, R.\*, Kathiresan, S.\*, Hamsten, A.\*, Kooner, J.S.\*, Thorsteinsdottir, U.\*, Danesh, J.\*, Palmer, C.N.A.\*, Roberts, R.\*, Watkins, H.\*, Schunkert, H.\*, Samani, N.J.\*: Large-scale association analysis identifies new risk loci for coronary artery disease. Nat. Genet. 45, 25-35 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

den Hoed, M.\*, Eijgelsheim, M.\*, Esko, T.\*, Brundel, B.J.\*, Peal, D.S.\*, Evans, D.M.\*, Nolte, I.M.\*, Segrè, A.V.\*, Holm, H.\*, Handsaker, R.E.\*, Westra, H.J.\*, Johnson, T.\*, Isaacs, A.\*, Yang, J.\*, Lundby, A.\*, Zhao, J.H.\*, Kim, Y.J.\*, Go, M.J.\*, Almgren, P.\*, Bochud, M.\*, Boucher, G.\*, Cornelis, M.C.\*, Gudbjartsson, D.\*, Hadley, D.\*, van der Harst, P.\*, Hayward, C.\*, Den Heijer, M.\*, Igl, W.\*, Jackson, A.U.\*, Kutalik, Z.\*, Luan, J.\*, Kemp, J.P.\*, Kristiansson, K.\*, Ladenvall, C.\*, Lorentzon, M.\*, Montasser, M.E.\*, Njajou, O.T.\*, O'Reilly, P.F.\*, Padmanabhan, S.\*, St Pourcain, B.\*, Rankinen, T.\*, Salo, P.\*, Tanaka, T.\*, Timpson, N.J.\*, Vitart, V.\*, Waite, L.\*, Wheeler, W.\*, Zhang, W.\*, Draisma, H.H.\*, Feitosa, M.F.\*, Kerr, K.F.\*, Lind, P.A.\*, Mihailov, E.\*, Onland-Moret, N.C.\*, Song, C.\*, Weedon, M.N.\*, Xie, W.\*, Yengo, L.\*, Absher, D.\*, Albert, C.M.\*, Alonso, A.\*, Arking, D.E.\*, de Bakker, P.I.\*, Balkau, B.\*, Barlassina, C.\*, Benaglio, P.\*, Bis, J.C.\*, Bouatia-Naji, N.\*, Brage, S.\*, Chanock, S.J.\*, Chines, P.S.\*, Chung, M.\*, Darbar, D.\*, Dina, C.\*, Dörr, M.\*, Elliott, P.\*, Felix, S.B.\*, Fischer, K.\*, Fuchsberger, C.\*, de Geus, E.J.\*, Goyette, P.\*, Gudnason, V.\*, Harris, T.B.\*, Hartikainen, A.L.\*, Havulinna, A.S.\*, Heckbert, S.R.\*, Hicks, A.A.\*, Hofman, A.\*, Holewijn, S.\*, Hoogstra-Berends, F.\*, Hottenga, J.J.\*, Jensen, M.K.\*, Johansson, A.\*, Junttila, J.\*, Kääb, S.\*, Kanon, B.\*, Ketkar, S.\*, Khaw, K.T.\*, Knowles, J.W.\*, Kooner, A.S.\*, Kors, J.A.\*, Kumari, M.\*, Milani, L.\*, Laiho, P.\*, Lakatta, E.G.\*, Langenberg, C.\*, Leusink, M.\*, Liu, Y.\*, Luben, R.N.\*, Lunetta, K.L.\*, Lynch, S.N.\*, Markus, M.R.\*, Marques-Vidal, P.\*, Mateo Leach, I.\*, McArdle, W.L.\*, McCarroll, S.A.\*, Medland, S.E.\*, Miller, K.A.\*, Montgomery, G.W.\*, Morrison, A.C.\*, Müller-Nurasyid, M., Navarro, P.\*, Nelis, M.\*, O'Connell, J.R.\*, O'Donnell, C.J.\*, Ong, K.K.\*, Newman, A.B.\*, Peters, A., Polasek, O.\*, Pouta, A.\*, Pramstaller, P.P.\*, Psaty, B.M.\*, Rao, D.C.\*, Ring, S.M.\*, Rossin, E.J.\*, Rudan, D.\*, Sanna, S.\*, Scott, R.A.\*, Sehmi, J.S.\*, Sharp, S.\*, Shin, J.T.\*, Singleton, A.B.\*, Smith, A.V.\*, Soranzo, N.\*, Spector, T.D.\*, Stewart, C.\*, Stringham, H.M.\*, Tarasov, K.V.\*, Uitterlinden, A.G.\*, Vandenput, L.\*, Hwang, S.J.\*, Whitfield, J.B.\*, Wijmenga, C.\*, Wild, S.H.\*, Willemsen, G.\*, Wilson, J.F.\*, Witteman, J.C.\*, Wong, A.\*, Wong, Q.\*, Jamshidi, Y.\*, Zitting, P.\*, Boer, J.M.\*, Boomsma, D.I.\*, Borecki, I.B.\*, van Duijn, C.M.\*, Ekelund, U.\*, Forouhi, N.G.\*, Froguel, P.\*, Hingorani, A.\*, Ingelsson, E.\*, Kivimaki, M.\*, Kronmal, R.A.\*, Kuh, D.\*, Lind, L.\*, Martin, N.G.\*, Oostra, B.A.\*, Pedersen, N.L.\*, Quertermous, T.\*, Rotter, J.I.\*, van der Schouw, Y.T.\*, Verschuren, W.M.\*, Walker, M.\*, Albanes, D.\*, Arnar, D.O.\*, Assimes, T.L.\*, Bandinelli, S.\*, Boehnke, M.\*, de Boer, R.A.\*, Bouchard, C.\*, Caulfield, W.L.\*, Chambers, J.C.\*, Curhan, G.\*, Cusi, D.\*, Eriksson, J.\*, Ferrucci, L.\*, van Gilst, W.H.\*, Glorioso, N.\*, de Graaf, J.\*, Groop, L.\*, Gyllensten, U.\*, Hsueh, W.C.\*, Hu, F.B.\*, Huikuri, H.V.\*, Hunter, D.J.\*, Iribarren, C.\*, Isomaa, B.\*, Jarvelin, M.R.\*, Jula, A.\*, Kähönen, M.\*, Kiemeney, L.A.\*, van der Klauw, M.M.\*, Kooner, J.S.\*, Kraft, P.\*, Iacoviello, L.\*, Lehtimäki, T.\*, Lokki, M.L.\*, Mitchell, B.D.\*, Navis, G.\*, Nieminen, M.S.\*, Ohlsson, C.\*, Poulter, N.R.\*, Qi, L.\*, Raitakari, O.T.\*, Rimm, E.B.\*, Rioux, J.D.\*, Rizzi, F.\*, Rudan, I.\*, Salomaa, V.\*, Sever, P.S.\*, Shields, D.C.\*, Shuldiner, A.R.\*, Sinisalo, J.\*, Stanton, A.V.\*, Stolk, R.P.\*, Strachan, D.P.\*, Tardif, J.C.\*, Thorsteinsdottir, U.\*, Tuomilehto, J.\*, van Veldhuisen, D.J.\*, Virtamo, J.\*, Viikari, J.\*, Vollenweider, P.\*, Waeber, G.\*, Widen, E.\*, Cho, Y.S.\*, Olsen, J.V.\*, Visscher, P.M.\*, Willer, C.\*, Franke, L.\*, Global BPgen Consortium (Döring, A., Pfeufer, A., Illig, T., Gieger, C., Wichmann, H.-E., Meitinger, T., Eyheramendy, S.), CARDIOGRAM Consortium (Peters, A., Wichmann, H.-E., Meitinger, T., Meisinger, C., Döring, A., Illig, T., Klopp, N.B.), Erdmann, J.\*, Thompson, J.R.\*, PR GWAS Consortium, Pfeufer, A., QRS GWAS Consortium, Sotoodehnia, N.\*, QT-IGC Consortium, Newton-Cheh, C.\*, CHARGE-AF Consortium, Ellinor, P.T.\*, Stricker, B.H.\*, Metspalu, A.\*, Perola, M.\*, Beckmann, J.S.\*, Smith, G.D.\*, Stefansson, K.\*, Wareham, N.J.\*, Munroe, P.B.\*, Sibon, O.C.\*,

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Milan, D.J.\*, Snieder, H.\*, Samani, N.J.\*, Loos, R.J.\*: Identification of heart rate-associated loci and their effects on cardiac conduction and rhythm disorders. *Nat. Genet.* **45**, 621-631 (2013)

Depner, M.\*, Ege, M.J.\*, Genuneit, J.\*, Pekkanen, J.\*, Roponen, M.\*, Hirvonen, M.R.\*, Dalphin, J.C.\*, Kaulek, V.\*, Krauss-Etschmann, S., Riedler, J.\*, Braun-Fahrländer, C.\*, Roduit, C.\*, Lauener, R.\*, Pfefferle, P.I.\*, Weber, J.\*, von Mutius, E.\*: Atopic sensitization in the first year of life. *J. Allergy Clin. Immunol.* **131**, 781-788 (2013)

Dicheva, B.M.\*, Hagen, T.L.\*, Li, L.\*, Schipper, D.\*, Seynhaeve, A.L.\*, Rhoon, G.C.\*, Eggermont, A.M.\*, Lindner, L.H., Koning, G.A.\*: Cationic thermosensitive liposomes: A novel dual targeted heat-triggered drug delivery approach for endothelial and tumor cells. *Nano Lett.* **13**, 2324-2331 (2013)

Dichgans, M.\*, Malik, R.\*, König, I.R.\*, Rosand, J.\*, Clarke, R.\*, Gretarsdottir, S.\*, Thorleifsson, G.\*, Mitchell, B.D.\*, Assimes, T.L.\*, Levi, C.\*, Odonnell, C.J.\*, Fornage, M.\*, Thorsteinsdottir, U.\*, Psaty, B.M.\*, Hengstenberg, C.\*, Seshadri, S.\*, Erdmann, J.\*, Bis, J.C.\*, Peters, A., Boncoraglio, G.B.\*, Marz, W.\*, Meschia, J.F.\*, Kathiresan, S.\*, Ikram, M.A.\*, McPherson, R.\*, Stefansson, K.\*, Sudlow, C.\*, Reilly, M.P.\*, Thompson, J.R.\*, Sharma, P.\*, Hopewell, J.C.\*, Chambers, J.C.\*, Watkins, H.\*, Rothwell, P.M.\*, Roberts, R.\*, Markus, H.S.\*, Samani, N.J.\*, Farrall, M.\*, Schunkert, H.\*, METASTROKE Consortium, CARDIoGRAM Consortium (Döring, A., Wichmann, H.-E., Illig, T., Klopp, N.B., Meisinger, C., Peters, A., Meitinger, T.), C4D Consortium, International Stroke Genetics Consortium: Shared genetic susceptibility to ischemic stroke and coronary artery disease: A genome-wide analysis of common variants. *Stroke* **45**, 24-36 (2014) [published online 2013]

Discher, M., Woda, C., Fiedler, I.: Improvement of dose determination using glass display of mobile phones for accident dosimetry. *Radiat. Meas.* **56**, 240-243 (2013)

Discher, M., Woda, C.: Thermoluminescence of glass display from mobile phones for retrospective and accident dosimetry. *Radiat. Meas.* **53-54**, 12-21 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Do, R.\*, Willer, C.J.\*, Schmidt, E.M.\*, Sengupta, S.\*, Gao, C.\*, Peloso, G.M.\*, Gustafsson, S.\*, Kanoni, S.\*, Ganna, A.\*, Chen, J.\*, Buchkovich, M.L.\*, Mora, S.\*, Beckmann, J.S.\*, Bragg-Gresham, J.L.\*, Chang, H.Y.\*, Demirkan, A.\*, Den Hertog, H.M.\*, Donnelly, L.A.\*, Ehret, G.B.\*, Esko, T.\*, Feitosa, M.F.\*, Ferreira, T.\*, Fischer, K.\*, Fontanillas, P.\*, Fraser, R.M.\*, Freitag, D.F.\*, Gurdasani, D.\*, Heikkilä, K.\*, Hyppönen, E.\*, Isaacs, A.\*, Jackson, A.U.\*, Johansson, A.\*, Johnson, T.\*, Kaakinen, M.\*, Kettunen, J.\*, Kleber, M.E.\*, Li, X.\*, Luan, J.\*, Lyytikäinen, L.P.\*, Magnusson, P.K.\*, Mangino, M.\*, Mihailov, E.\*, Montasser, M.E.\*, Müller-Nurasyid, M., Nolte, I.M.\*, O'Connell, J.R.\*, Palmer, C.D.\*, Perola, M.\*, Petersen, A.-K., Sanna, S.\*, Saxena, R.\*, Service, S.K.\*, Shah, S.\*, Shungin, D.\*, Sidore, C.\*, Song, C.\*, Strawbridge, R.J.\*, Surakka, I.\*, Tanaka, T.\*, Teslovich, T.M.\*, Thorleifsson, G.\*, van den Herik, E.G.\*, Voight, B.F.\*, Volcik, K.A.\*, Waite, L.L.\*, Wong, A.\*, Wu, Y.\*, Zhang, W.\*, Absher, D.\*, Asiki, G.\*, Barroso, I.\*, Been, L.F.\*, Bolton, J.L.\*, Bonnycastle, L.L.\*, Brambilla, P.\*, Burnett, M.S.\*, Cesana, G.\*, Dimitriou, M.\*, Doney, A.S.\*, Döring, A., Elliott, P.\*, Epstein, S.E.\*, Eyjolfsson, G.I.\*, Gigante, B.\*, Goodarzi, M.O.\*, Grallert, H.H., Gravito, M.L.\*, Groves, C.J.\*, Hallmans, G.\*, Hartikainen, A.L.\*, Hayward, C.\*, Hernandez, D.\*, Hicks, A.A.\*, Holm, H.\*, Hung, Y.J.\*, Illig, T., Jones, M.R.\*, Kaleebu, P.\*, Kastelein, J.J.\*, Khaw, K.T.\*, Kim, E.\*, Klopp, N., Komulainen, P.\*, Kumari, M.\*, Langenberg, C.\*, Lehtimäki, T.\*, Lin, S.Y.\*, Lindstrom, J.\*, Loos, R.J.\*, Mach, F.\*, McArdle, W.L.\*, Meisinger, C., Mitchell, B.D.\*, Müller, G.\*, Nagaraja, R.\*, Narisu, N.\*, Nieminen, T.V.\*, Nsubuga, R.N.\*, Olafsson, I.\*, Ong, K.K.\*, Palotie, A.\*, Papamarkou, T.\*, Pomilla, C.\*, Pouta, A.\*, Rader, D.J.\*, Reilly, M.P.\*, Ridker, P.M.\*, Rivadeneira, F.\*, Rudan, I.\*, Ruokonen, A.\*, Samani, N.\*, Scharnagl, H.\*, Seeley, J.\*, Silander, K.\*, Stancáková, A.\*, Stirrups, K.\*, Swift, A.J.\*, Tiret, L.\*, Uitterlinden, A.G.\*, van Pelt, L.J.\*, Vedantam, S.\*, Wainwright, N.\*, Wijmenga, C.\*, Wild, S.H.\*, Willemsen, G.\*, Wilsgaard, T.\*, Wilson, J.F.\*, Young, E.H.\*, Zhao, J.H.\*, Adair, L.S.\*, Arveiler, D.\*, Assimes, T.L.\*, Bandinelli, S.\*, Bennett, F.\*, Bochud, M.\*, Boehm, B.O.\*, Boomsma, D.I.\*, Borecki, I.B.\*, Bornstein, S.R.\*, Bovet, P.\*, Burnier, M.\*, Campbell, H.\*, Chakravarti, A.\*, Chambers, J.C.\*, Chen, Y.D.\*, Collins, F.S.\*, Cooper, R.S.\*, Danesh, J.\*, Dedoussis, G.\*, de Faire, U.\*, Feranil, A.B.\*, Ferrieres, J.\*, Ferrucci, L.\*, Freimer, N.B.\*, Gieger, C., Groop, L.C.\*, Gudnason, V.\*, Gyllensten, U.\*, Hamsten, A.\*, Harris, T.B.\*, Hingorani, A.\*, Hirschhorn, J.N.\*, Hofman, A.\*, Hovingh, G.K.\*, Hsiung, C.A.\*, Humphries, S.E.\*, Hunt, S.C.\*, Hveem, K.\*, Iribarren, C.\*, Jarvelin, M.R.\*, Jula, A.\*, Kähönen, M.\*, Kaprio, J.\*, Kesaniemi, A.\*, Kivimaki, M.\*, Kooner, J.S.\*, Koudstaal, P.J.\*, Krauss, R.M.\*, Kuh, D.\*, Kuusisto, J.\*, Kyvik, K.O.\*, Laakso, M.\*, Lakka, T.A.\*, Lind, L.\*, Lindgren, C.M.\*, Martin, N.G.\*, Marz, W.\*, McCarthy, M.I.\*, McKenzie, C.A.\*, Meneton, P.\*, Metspalu, A.\*, Moilanen, L.\*, Morris, A.D.\*, Munroe, P.B.\*, Njølstad, I.\*, Pedersen, N.L.\*, Power, C.\*, Pramstaller, P.P.\*, Price, J.F.\*, Psaty, B.M.\*, Quertermous, T.\*, Rauramaa, R.\*, Saleheen, D.\*, Salomaa, V.\*, Sanghera, D.K.\*, Saramies, J.\*, Schwarz, P.E.\*, Sheu, W.H.\*, Shuldiner, A.R.\*, Siegbahn, A.\*, Spector, T.D.\*, Stefansson, K.\*, Strachan, D.P.\*, Tayo, B.O.\*, Tremoli, E.\*, Tuomilehto, J.\*, Uusitupa, M.\*, van Duijn, C.M.\*, Vollenweider, P.\*, Wallentin, L.\*, Wareham, N.J.\*, Whitfield, J.B.\*, Wolffenbuttel, B.H.\*, Altshuler, D.\*, Ordovas, J.M.\*, Boerwinkle, E.\*, Palmer, C.N.\*, Thorsteinsdottir, U.\*, Chasman, D.I.\*, Rotter, J.I.\*, Franks, P.W.\*, Ripatti, S.\*, Cupples, L.A.\*, Sandhu, M.S.\*, Rich, S.S.\*, Boehnke, M.\*, Deloukas, P.\*, Mohlke, K.L.\*, Ingelsson, E.\*, Abecasis, G.R.\*, Daly, M.J.\*, Neale, B.M.\*, Kathiresan, S.\*: Common variants associated with plasma triglycerides and risk for coronary artery disease. Nat. Genet. 45, 1345-1352 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Dolga, A.M.\*, Netter, M.F.\*, Perocchi, F.\*, Doti, N.\*, Meissner, L.\*, Tobaben, S.\*, Grohm, J.\*, Zischka, H., Plesnila, N.\*, Decher, N.\*, Culmsee, C.\*: Mitochondrial small conductance SK2 channels prevent glutamate-induced oxytosis and mitochondrial dysfunction. *J. Biol. Chem.* **288**, 10792-10804 (2013)

Dong, X.\*, Zhong, T.Y.\*, Xu, T., Xia, Y.T.\*, Li, B.Q.\*, Li, C.\*, Yuan, L.Y.\*, Ding, G.H.\*, Li, Y.X.\*: Evaluating coverage of exons by HapMap SNPs. *Genomics* **101**, 20-23 (2013)

Dörhöfer, L.\*, Lammert, A.\*, Krane, V.\*, Gorski, M.\*, Banas, B.\*, Wanner, C.\*, Krämer, B.K.\*, Heid, I.M., Böger, C.A.\*: Study design of DIACORE (DIAbetes COhoRtE) - a cohort study of patients with diabetes mellitus type 2. *BMC Med. Genet.* **14**:25 (2013)

Emerging Risk Factors Collaboration (Döring, A., Meisinger, C.), Kaptoge, S.\*, Di Angelantonio, E.\*, Pennells, L.\*, Wood, A.M.\*, White, I.R.\*, Gao, P.\*, Walker, M.\*, Thompson, A.\*, Sarwar, N.\*, Caslake, M.\*, Butterworth, A.S.\*, Amouyel, P.\*, Assmann, G.\*, Bakker, S.J.\*, Barr, E.L.\*, Barrett-Connor, E.\*, Benjamin, E.J.\*, Björkelund, C.\*, Brenner, H.\*, Brunner, E.\*, Clarke, R.\*, Cooper, J.A.\*, Cremer, P.\*, Cushman, M.\*, Dagenais, G.R.\*, D'Agostino, R.B. S.r.\*, Dankner, R.\*, Davey-Smith, G.\*, Deeg, D.\*, Dekker, J.M.\*, Engström, G.\*, Folsom, A.R.\*, Fowkes, F.G.\*, Gallacher, J.\*, Gaziano, J.M.\*, Giampaoli, S.\*, Gillum, R.F.\*, Hofman, A.\*, Howard, B.V.\*, Ingelsson, E.\*, Iso, H.\*, Jørgensen, T.\*, Kiechl, S.\*, Kitamura, A.\*, Kiyohara, Y.\*, Koenig, W.\*, Kromhout, D.\*, Kuller, L.H.\*, Lawlor, D.A.\*, Meade, T.W.\*, Nissinen, A.\*, Nordestgaard, B.G.\*, Onat, A.\*, Panagiotakos, D.B.\*, Psaty, B.M.\*, Rodriguez, B.\*, Rosengren, A.\*, Salomaa, V.\*, Kauhanen, J.\*, Salonen, J.T.\*, Shaffer, J.A.\*, Shea, S.\*, Ford, I.\*, Stehouwer, C.D.\*, Strandberg, T.E.\*, Tipping, R.W.\*, Tosetto, A.\*, Wassertheil-Smoller, S.\*, Wennberg, P.\*, Westendorp, R.G.\*, Whincup, P.H.\*, Wilhelmsen, L.\*, Woodward, M.\*, Lowe, G.D.\*, Wareham, N.J.\*, Khaw, K.T.\*, Sattar, N.\*, Packard, C.J.\*, Gudnason, V.\*, Ridker, P.M.\*, Pepys, M.B.\*, Thompson, S.G.\*, Danesh, J.\*: C-reactive protein, fibrinogen, and cardiovascular disease prediction. *N. Engl. J. Med.* **367**, 1310-1320 (2012)

Emerging Risk Factors Collaboration (Döring, A., Meisinger, C.): Lipid-related markers and cardiovascular disease prediction. *JAMA* **307**, 2499-506 (2012)

Dössinger, G.\*, Bunse, M.\*, Bet, J.\*, Albrecht, J., Paszkiewicz, P.J.\*, Weißbrich, B.\*, Schiedewitz, I., Henkel, L.\*, Schiemann, M., Neuenhahn, M., Uckert, W.\*, Busch, D.H.: MHC multimer-guided and cell culture-independent isolation of functional T cell receptors from single cells facilitates TCR identification for immunotherapy. *PLoS ONE* **8**:e61384 (2013)

Ehlert, S.\*, Walte, A.\*, Zimmermann, R.: Ambient pressure laser desorption and laser-induced acoustic desorption ion mobility spectrometry detection of explosives. *Anal. Chem.* **85**, 11047-11053 (2013)

Ehlert, S.\*, Hölzer, J., Rittgen, J.\*, Pütz, M.\*, Schulte-Ladbeck, R.\*, Zimmermann, R.: Rapid on-site detection of explosives on surfaces by ambient pressure laser desorption and direct inlet single photon ionization or chemical ionization mass spectrometry. *Anal. Bioanal. Chem.* **405**, 6979-6993 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Ehrhardt, H., Pfeiffer, S., Schrembs, D., Wachter, F., Grunert, M., Jeremias, I.: Activation of DNA damage response by antitumor therapy counteracts the activity of Vinca alkaloids. *Anticancer Res.* **33**, 5273-5287 (2013)

Ehrhardt, H., Wachter, F., Grunert, M., Jeremias, I.: Cell cycle-arrested tumor cells exhibit increased sensitivity towards TRAIL-induced apoptosis. *Cell Death Dis.* **4**:e661 (2013)

Ehrhardt, H., Pannert, L., Pfeiffer, S., Wachter, F., Amtmann, E.\*, Jeremias, I.: Enhanced anti-tumour effects of vinca alkaloids given separately from cytostatic therapies. *Br. J. Pharmacol.* **168**, 1558-1569 (2013)

Eick, D., Geyer, M.\*: The RNA polymerase II Carboxy-Terminal Domain (CTD) code. *Chem. Rev.* **113**, 8456-8490 (2013)

Eissler, N., Mysliwietz, J., Deppisch, N., Ruf, P.\*, Lindhofer, H.\*, Mocikat, R.: Potential of the trifunctional bispecific antibody Surek depends on dendritic cells: Rationale for a new approach of tumor immunotherapy. *Mol. Med.* **19**, 54-61 (2013)

Ellinghaus, D.\*, Folseraas, T.\*, Holm, K.\*, Ellinghaus, E.\*, Melum, E.\*, Balschun, T.\*, Laerdahl, J.K.\*, Shiryaev, A.\*, Gotthardt, D.N.\*, Weismuller, T.J.\*, Schramm, C.\*, Wittig, M.\*, Bergquist, A.\*, Björnsson, E.\*, Marschall, H.U.\*, Vatn, M.\*, Teufel, A.\*, Rust, C.\*, Gieger, C., Wichmann, H.-E., Runz, H.\*, Sterneck, M.\*, Rupp, C.\*, Braun, F.\*, Weersma, R.K.\*, Wijmenga, C.\*, Ponsioen, C.Y.\*, Mathew, C.G.\*, Rutgeerts, P.\*, Vermeire, S.\*, Schrumpf, E.\*, Hov, J.R.\*, Manns, M.P.\*, Boberg, K.M.\*, Schreiber, S.\*, Franke, A.\*, Karlsen, T.H.\*: Genome-wide association analysis in primary sclerosing cholangitis and ulcerative colitis identifies risk loci at GPR35 and TCF4. *Hepatology* **58**, 1074-1083 (2013)

Elsasser, M., Busch, C.\*, Orasche, J., Schön, C.\*, Hartmann, H.\*, Schnelle-Kreis, J., Zimmermann, R.: Dynamic changes of the aerosol composition and concentration during different burning phases of wood combustion. *Energy Fuels* **27**, 4959-4968 (2013)

Emeny, R.T., Zierer, A.\*, Lacruz, M.E., Baumert, J., Herder, C.\*, Gornitzka, G.\*, Koenig, W.\*, Thorand, B., Ladwig, K.-H.: Job strain-associated inflammatory burden and long-term risk of coronary events: Findings from the MONICA/KORA Augsburg case-cohort study. *Psychosom. Med.* **75**, 317-325 (2013)

Enciso-Mora, V.\*, Hosking, F.J.\*, Kinnersley, B.\*, Wang, Y.F.\*, Shete, S.\*, Zelenika, D.\*, Broderick, P.\*, Idbaih, A.\*, Delattre, J.-Y.\*, Hoang-Xuan, K.\*, Marie, Y.\*, Di Stefano, A.L.\*, Labussière, M.\*, Dobbins, S.\*, Boisselier, B.\*, Ciccarino, P.\*, Rossetto, M.\*, Armstrong, G.\*, Liu, Y.H.\*, Gousias, K.\*, Schramm, J.\*, Lau, C.\*, Hepworth, S.J.\*, Strauch, K., Müller-Nurasyid, M., Schreiber, S..\*, Franke, A.\*, Moebus, S.\*, Eisele, L.\*, Försti, A.\*, Hemminki, K.\*, Tomlinson, I.P.\*, Swerdlow, A.\*, Lathrop, M.\*, Simon, M.\*, Bondy, M.\*, Sanson, M.\*, Houlston, R.S.\*: Deciphering the 8q24.21 association for glioma. *Hum. Mol. Genet.* **22**, 2293-2302 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Enciso-Mora, V.\*, Hosking, F.J.\*, Di Stefano, A.L.\*, Zelenika, D.\*, Shete, S.\*, Broderick, P.\*, Idbaih, A.\*, Delattre, J.Y.\*, Hoang-Xuan, K.\*, Marie, Y.\*, Labussière, M.\*, Alentorn, A.\*, Ciccarino, P.\*, Rossetto, M.\*, Armstrong, G.\*, Liu, Y.\*, Gousias, K.\*, Schramm, J.\*, Lau, C.\*, Hepworth, S.J.\*, Schoemaker, M.\*, Strauch, K., Müller-Nurasyid, M., Schreiber, S.\*, Franke, A.\*, Moebus, S.\*, Eisele, L.\*, Swerdlow, A.\*, Simon, M.\*, Bondy, M.\*, Lathrop, M.\*, Sanson, M.\*, Houlston, R.S.\*: Low penetrance susceptibility to glioma is caused by the TP53 variant rs78378222. *Br. J. Cancer* 108, 2178-2185 (2013)

Endo, A.\*, Petoussi-Henss, N., Zankl, M., Bolch, W.E.\*, Eckerman, K.F.\*, Hertel, N.E.\*, Hunt, J.G.\*, Pelliccioni, M.\*, Schlattl, H., Menzel, H.G.\*: Overview of the ICRP/ICRU adult reference computational phantoms and dose conversion coefficients for external idealised exposures. *Radiat. Prot. Dosim.*, DOI:10.1093/rpd/nct304 (2013)

Eska, K.\*, Graessel, E.\*, Donath, C.\*, Schwarzkopf, L., Lauterberg, J.\*, Holle, R.: Predictors of institutionalization of dementia patients in mild and moderate stages: A 4-year prospective analysis. *Dement. Geriatr. Cogn. Disord.* **3**, 426-445 (2013)

Esko, T.\*, Mezzavilla, M.\*, Nelis, M.\*, Borel, C.\*, Debniak, T.\*, Jakkula, E.\*, Julià, A.\*, Karachanak, S.\*, Khrunin, A.\*, Kisfali, P.\*, Krulisova, V.\*, Aušrelé Kučinskiené, Z.\*, Rehnström, K.\*, Traglia, M.\*, Nikitina-Zake, L.\*, Zimprich, F.\*, Antonarakis, S.E.\*, Estivill, X.\*, Glavac, D.\*, Gut, I.\*, Klovins, J.\*, Krawczak, M.\*, Kucinskas, V.\*, Lathrop, M.\*, Macek, M.\*, Marsal, S.\*, Meitinger, T., Melegh, B.\*, Limborska, S.\*, Lubinski, J.\*, Paolotie, A.\*, Schreiber, S.\*, Toncheva, D.\*, Toniolo, D.\*, Wichmann, H.-E., Zimprich, A.\*, Metspalu, M.\*, Gasparini, P.\*, Metspalu, A.\*, D'Adamo, P.\*: Genetic characterization of Northeastern Italian population isolates in the context of broader European genetic diversity. *Eur. J. Hum. Genet.* 21, 659-665 (2013)

Esslinger, S.M.\*, Schwalb, B.\*, Helfer, S.\*, Michalik, K.M.\*, Witte, H., Maier, K.C.\*, Martin, D.\*, Michalke, B., Tresch, A.\*, Cramer, P.\*, Forstemann, K.\*: *Drosophila* miR-277 controls branched-chain amino acid catabolism and affects lifespan. *RNA Biol.* **10**, 1042-1056 (2013)

Evans, D.M.\*, Brion, M.J.\*, Paternoster, L.\*, Kemp, J.P.\*, McMahon, G.\*, Munafò, M.\*, Whitfield, J.B.\*, Medland, S.E.\*, Montgomery, G.W.\*, GIANT Consortium (Gieger, C., Grallert, H.H., Heid, I.M., Heinrich, J., Illig, T., Peters, A., Wichmann, H.-E.), CRP Consortium (Baumert, J.J.), TAG Consortium, Timpson, N.J.\*, St Pourcain, B.\*, Lawlor, D.A.\*, Martin, N.G.\*, Dehghan, A.\*, Hirschhorn, J.\*, Davey Smith, G.\*: Mining the human phenome using allelic scores that index biological intermediates. *PLoS Genet.* **9**:e1003919 (2013)

Eyerich, K., Novak, N.\*: Immunology of atopic eczema: Overcoming the Th1/Th2 paradigm. *Allergy* **68**, 974-982 (2013)

Falkenberg, N., Anastasov, N., Rappl, K., Braselmann, H., Auer, G.\*, Walch, A.K., Huber, M., Höfig, I., Schmitt, M.\*, Höfler, H., Atkinson, M.J., Aubele, M.: MiR-221/-222 differentiate prognostic groups in advanced breast cancers and influence cell invasion. *Br. J. Cancer* **109**, 2714–2723 (2013)

German Research Center for Environmental Health

## Publication List 2013

2014-01-01

\* external authors are starred

#### **Environmental Health**

Fall, T.\*, Hägg, S.\*, Mägi, R.\*, Ploner, A.\*, Fischer, K.\*, Horikoshi, M.\*, Sarin, A.P.\*, Thorleifsson, G.\*, Ladenvall, C.\*, Kals, M.\*, Kuningas, M.\*, Draisma, H.H.\*, Ried, J.S., van Zuydam, N.R.\*, Huikari, V.\*, Mangino, M.\*, Sonestedt, E.\*, Benyamin, B.\*, Nelson, C.P.\*, Rivera, N.V.\*, Kristiansson, K.\*, Shen, H.Y.\*, Havulinna, A.S.\*, Dehghan, A.\*, Donnelly, L.A.\*, Kaakinen, M.\*, Nuotio, M.L.\*, Robertson, N.\*, de Bruijn, R.F.\*, Ikram, M.A.\*, Amin, N.\*, Balmforth, A.J.\*, Braund, P.S.\*, Doney, A.S.\*, Döring, A., Elliott, P.\*, Esko, T.\*, Franco, O.H.\*, Gretarsdottir, S.\*, Hartikainen, A.L.\*, Heikkilä, K.\*, Herzig, K.H.\*, Holm, H.\*, Hottenga, J.J.\*, Hyppönen, E.\*, Illig, T., Isaacs, A.\*, Isomaa, B.\*, Karssen, L.C.\*, Kettunen, J.\*, Koenig, W.\*, Kuulasmaa, K.\*, Laatikainen, T.\*, Laitinen, J.\*, Lindgren, C.\*, Lyssenko, V.\*, Läärä, E.\*, Rayner, N.W.\*, Männisto, S.\*, Pouta, A.\*, Rathmann, W.\*, Rivadeneira, F.\*, Ruokonen, A.\*, Savolainen, M.J.\*, Sijbrands, E.J.\*, Small, K.S.\*, Smit, J.H.\*, Steinthorsdottir, V.\*, Syvanen, A.C.\*, Taanila, A.\*, Tobin, M.D.\*, Uitterlinden, A.G.\*, Willems, S.M.\*, Willemsen, G.\*, Witteman, J.\*, Perola, M.\*, Evans, A.\*, Ferrieres, J.\*, Virtamo, J.\*, Kee, F.\*, Tregouet, D.A.\*, Arveiler, D.\*, Amouyel, P.\*, Ferrario, M.M.\*, Brambilla, P.\*, Hall, A.S.\*, Heath, A.C.\*, Madden, P.A.\*, Martin, N.G.\*, Montgomery, G.W.\*, Whitfield, J.B.\*, Jula, A.\*, Knekt, P.\*, Oostra, B.\*, van Duijn, C.M.\*, Penninx, B.W.\*, Davey Smith, G.\*, Kaprio, J.\*, Samani, N.J.\*, Gieger, C., Peters, A., Wichmann, H.-E., Boomsma, D.I.\*, de Geus, E.J.\*, Tuomi, T.\*, Power, C.\*, Hammond, C.J.\*, Spector, T.D.\*, Lind, L.\*, Orho-Melander, M.\*, Palmer, C.N.\*, Morris, A.D.\*, Groop, L.\*, Jarvelin, M.R.\*, Salomaa, V.\*, Vartiainen, E.\*, Hofman, A.\*, Ripatti, S.\*, Metspalu, A.\*, Thorsteinsdottir, U.\*, Stefansson, K.\*, Pedersen, N.L.\*, McCarthy, M.I.\*, Ingelsson, E.\*, Prokopenko, I.\*, ENGAGE Consortium: The role of adiposity in cardiometabolic traits: A mendelian randomization analysis. PLoS Med. 10:e1001474 (2013)

Feijs, K.L.H.\*, Kleine, H.\*, Braczynski, A.\*, Forst, A.H.\*, Herzog, N.\*, Verheugd, P.\*, Linzen, U.\*, Kremmer, E., Lüscher, B.\*: ARTD10 substrate identification on protein microarrays: Regulation of GSK3β by mono-ADP-ribosylation. *Cell Commun. Signal.* **11**:5 (2013)

Felmy, B.\*, Songhet, P.\*, Slack, E.M.\*, Müller, A.J.\*, Kremer, M.\*, van Maele, L.\*, Cayet, D.\*, Heikenwälder, M., Sirard, J.C.\*, Hardt, W.D.\*: NADPH oxidase deficient mice develop colitis and bacteremia upon infection with normally avirulent, TTSS-1- and TTSS-2-deficient *Salmonella* typhimurium. *PLoS ONE* **8**:e77204 (2013)

Fendt, A., Geissler, R., Streibel, T., Sklorz, M., Zimmermann, R.: Hyphenation of two simultaneously employed soft photo ionization mass spectrometers with thermal analysis of biomass and biochar. *Thermochim. Acta* **551**, 155-163 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Fernández-Rhodes, L.\*, Demerath, E.W.\*, Cousminer, D.L.\*, Tao, R.\*, Dreyfus, J.G.\*, Esko, T.\*, Smith, A.V.\*, Gudnason, V.\*, Harris, T.B.\*, Launer, L.\*, McArdle, P.F.\*, Yerges-Armstrong, L.M.\*, Elks, C.E.\*, Strachan, D.P.\*, Kutalik, Z.\*, Vollenweider, P.\*, Feenstra, B.\*, Boyd, H.A.\*, Metspalu, A.\*, Mihailov, E.\*, Broer, L.\*, Zillikens, M.C.\*, Oostra, B.\*, van Duijn, C.M.\*, Lunetta, K.L.\*, Perry, J.R.\*, Murray, A.\*, Koller, D.L.\*, Lai, D.\*, Corre, T.\*, Toniolo, D.\*, Albrecht, E., Stöckl, D., Grallert, H.H., Gieger, C., Hayward, C.\*, Polasek, O.\*, Rudan, I.\*, Wilson, J.F.\*, He, C.\*, Kraft, P.\*, Hu, F.B.\*, Hunter, D.J.\*, Hottenga, J.J.\*, Willemsen, G.\*, Boomsma, D.I.\*, Byrne, E.M.\*, Martin, N.G.\*, Montgomery, G.W.\*, Warrington, N.M.\*, Pennell, C.E.\*, Stolk, L.\*, Visser, J.A.\*, Hofman, A.\*, Uitterlinden, A.G.\*, Rivadeneira, F.\*, Lin, P.\*, Fisher, S.L.\*, Bierut, L.J.\*, Crisponi, L.\*, Porcu, E.\*, Mangino, M.\*, Zhai, G.\*, Spector, T.D.\*, Buring, J.E.\*, Rose, L.M.\*, Ridker, P.M.\*, Poole, C.\*, Hirschhorn, J.N.\*, Murabito, J.M.\*, Chasman, D.I.\*, Widen, E.\*, North, K.E.\*, Ong, K.K.\*, Franceschini, N.\*: Association of adiposity genetic variants with menarche timing in 92,105 women of European descent. *Am. J. Epidemiol.* 178, 451-460 (2013)

Ferron, G.A., Upadhyay, S., Zimmermann, R., Karg, E.W.: Model of the deposition of aerosol particles in the respiratory tract of the rat. II. Hygroscopic particle deposition. *J. Aerosol Med. Pulm. Drug Deliv.* **26**, 101-119 (2013)

Fesenko, S.\*, Jacob, P., Ulanovsky, A., Chupov, A.\*, Bogdevich, I.\*, Sanzharova, N.\*, Kashparov, V.\*, Panov, A.\*, Zhuchenka, Y.\*: Justification of remediation strategies in the long term after the Chernobyl accident. *J. Environ. Radioact.* **119**, 39-47 (2013)

Filser, J.G., Kessler, W., Artati, A., Erbach, E., Faller, T.H., Kreuzer, P.E., Li, Q., Lichtmannegger, J., Numtip, W., Klein, D., Pütz, C., Semder, B., Csanády, G.A.: Ethylene oxide in blood of ethylene-exposed B6C3F1 mice, Fischer 344 rats, and humans. *Toxicol. Sci.* **136**, 344-358 (2013)

Fischer, K.E., Stollenwerk, B., Rogowski, W.H.: Link between process and appraisal in coverage decisions: An analysis with structural equation modeling. *Med. Decis. Making* **33**, 1009-1025 (2013)

Fischer, K.E., Rogowski, W.H., Leidl, R., Stollenwerk, B.: Transparency vs. closed-door policy: Do process characteristics have an impact on the outcomes of coverage decisions? A statistical analysis. *Health Policy* **112**, 187-196 (2013)

Fischer, M., Wohlfahrt, S., Saraji-Bozorgzad, M.\*, Matuschek, G., Post, E.\*, Denner, T.\*, Streibel, T.\*, Zimmermann, R.: Thermal analysis/evolved gas analysis using single photon ionization. *J. Therm. Anal. Calorim.* **113**, 1667-1673 (2013)

Fischer-Stabauer, M.\*, Boehner, A., Eyerich, S., Carbone, T.\*, Traidl-Hoffmann, C.\*, Schmidt-Weber, C.B., Cavani, A.\*, Ring, J.\*, Hein, R.\*, Eyerich, K.\*: Differential *in situ* expression of IL-17 in skin diseases. *Eur. J. Dermatol.* **22**, 781-784 (2012)

Flaquer, A., Heinzmann, A.\*, Rospleszcz, S., Mailaparambil, B.\*, Dietrich, H.\*, Strauch, K., Grychtol, R.\*: Association study of mitochondrial genetic polymorphisms in asthmatic children. *Mitochondrion* **14**, 49–53 (2014) [published online 2013]

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Flaquer, A., Baumbach, C., Pinero, E.\*, Algas, F.G.\*, de la Fuente Sanchez, M.A.\*, Rosell, J.\*, Toquero, J.\*, Alonso-Pulpon, L.\*, Garcia-Pavia, P.\*, Strauch, K., Heine-Suner, D.\*: Genome-wide linkage analysis of congenital heart defects using MOD score analysis identifies two novel loci. *BMC Genet.* **14**:44 (2013)

Fleck, D.\*, van Bebber, F.\*, Colombo, A.\*, Galante, C.\*, Schwenk, B.M.\*, Rabe, L.\*, Hampel, H.\*, Novak, B.\*, Kremmer, E., Tahirovic, S.\*, Edbauer, D.\*, Lichtenthaler, S.F.\*, Schmid, B.\*, Willem, M.\*, Haass, C.\*: Dual cleavage of neuregulin 1 type III by BACE1 and ADAM17 liberates its EGF-like domain and allows paracrine signaling. *J. Neurosci.* **33**, 7856-7869 (2013)

Flexeder, C., Thiering, E., Kratzsch, J.\*, Klümper, C.\*, Koletzko, B.\*, Müller, M.J.\*, Koletzko, S.\*, Heinrich, J.: Is a child's growth pattern early in life related to serum adipokines at the age of 10 years? *Eur. J. Clin. Nutr.* **68**, 25–31 (2014) [published online 2013]

Forst, A.H.\*, Karlberg, T.\*, Herzog, N.\*, Thorsell, A.-G.\*, Gross, A.\*, Feijs, K.L.H.\*, Verheugd, P.\*, Kursula, P.\*, Nijmeijer, B.\*, Kremmer, E., Kleine, H.\*, Ladurner, A.G.\*, Schüler, H.\*, Lüscher, B.\*: Recognition of mono-ADP-ribosylated ARTD10 substrates by ARTD8 macrodomains. *Structure* **21**, 462-475 (2013)

Friedland, W., Kundrát, P.: Track structure based modelling of chromosome aberrations after photon and alpha-particle irradiation. *Mutat. Res. -Gen. Tox. Environ. Mutag.* **756**, 213-223 (2013)

Fuchs, J.\*, Grabka, M.M.\*, Gruber, S.\*, Linkohr, B., Schmidt, C.\*, Schon, G.\*, Wurm, S.\*, Strobl, R.\*, Grill, E.\*: Daten für die epidemiologische Altersforschung : Möglichkeiten und Grenzen vorhandener Datensätze. Ergebnisse des 2. Workshops der Arbeitsgruppe Epidemiologie des Alterns der Deutschen Gesellschaft für Epidemiologie (DGEpi). *Bundesgesundheitsblatt-Gesund.* **56**, 1425-1431 (2013)

Fuertes, E., Brauer, M.\*, MacIntyre, E.A., Bauer, M.\*, Bellander, T.\*, von Berg, A.\*, Berdel, D.\*, Brunekreef, B.\*, Chan-Yeung, M.\*, Gehring, U.\*, Herbarth, O.\*, Hoffmann, B.\*, Kerkhof, M.\*, Klümper, C.\*, Koletzko, S.\*, Kozyrskyj, A.\*, Kull, I.\*, Heinrich, J., Melén, E.\*, Pershagen, G.\*, Postma, D.\*, Tiesler, C.M.T., Carlsten, C.\*, TAG Consortium: Childhood allergic rhinitis, trafficrelated air pollution, and variability in the *GSTP1*, *TNF*, *TLR2*, and *TLR4* genes: Results from the TAG study. *J. Allergy Clin. Immunol.* **132**, 342-352 (2013)

Gaertner, F.C.\*, Wiedemann, T., Yousefi, B.H.\*, Lee, M., Repokis, I., Higuchi, T.\*, Nekolla, S.G.\*, Yu, M.\*, Robinson, S.\*, Schwaiger, M.\*, Pellegata, N.S.: Preclinical evaluation of <sup>18</sup>F-LMI1195 for in vivo imaging of pheochromocytoma in the MENX tumor model. *J. Nucl. Med.* **54**, 2111-2117 (2013)

Galan, C.\*, Antunes, C.\*, Brandao, R.\*, Torres, C.\*, Garcia-Mozo, H.\*, Caeiro, E.\*, Ferro, R.\*, Prank, M.\*, Sofiev, M.\*, Albertini, R.\*, Berger, U.\*, Cecchi, L.\*, Celenk, S.\*, Grewling, L.\*, Jackowiak, B.\*, Jager, S.\*, Kennedy, R.\*, Rantio-Lehtimaki, A.\*, Reese, G.\*, Sauliene, I.\*, Smith, M.\*, Thibaudon, M.\*, Weber, B.\*, Weichenmeier, I., Pusch, G., Buters, J.T.: Airborne olive pollen counts are not representative of exposure to the major olive allergen Ole e 1. *Allergy* **68**, 809-812 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Ganesh, S.K.\*, Tragante, V.\*, Guo, W.\*, Guo, Y.\*, Lanktree, M.B.\*, Smith, E.N.\*, Johnson, T.\*, Castillo, B.A.\*, Barnard, J.\*, Baumert, J., Chang, Y.P.\*, Elbers, C.C.\*, Farrall, M.\*, Fischer, M.E.\*, Franceschini, N.\*, Gaunt, T.R.\*, Gho, J.M.\*, Gieger, C., Gong, Y.\*, Isaacs, A.\*, Kleber, M.E.\*, Mateo Leach, I.\*, McDonough, C.W.\*, Meijs, M.F.\*, Mellander, O.\*, Molony, C.M.\*, Nolte, I.M.\*, Padmanabhan, S.\*, Price, T.S.\*, Rajagopalan, R.\*, Shaffer, J.\*, Shah, S.\*, Shen, H.\*, Soranzo, N.\*, van der Most, P.J.\*, van Iperen, E.P.\*, van Setten, J.A.\*, Vonk, J.M.\*, Zhang, L.\*, Beitelshees, A.L.\*, Berenson, G.S.\*, Bhatt, D.L.\*, Boer, J.M.\*, Boerwinkle, E.\*, Burkley, B.\*, Burt, A.\*, Chakravarti, A.\*, Chen, W.\*, Cooper-DeHoff, R.M.\*, Curtis, S.P.\*, Dreisbach, A.\*, Duggan, D.\*, Ehret, G.B.\*, Fabsitz, R.R.\*, Fornage, M.\*, Fox, E.\*, Furlong, C.E.\*, Gansevoort, R.T.\*, Hofker, M.H.\*, Hovingh, G.K.\*, Kirkland, S.A.\*, Kottke-Marchant, K.\*, Kutlar, A.\*, LaCroix, A.Z.\*, Langaee, T.Y.\*, Li, Y.R.\*, Lin, H.\*, Liu, K.\*, Maiwald, S.\*, Malik, R.\*, CARDIOGRAM Consortium (Illig, T., Meisinger, C., Meitinger, T., Peters, A., Döring, A., Klopp, N.B., Wichmann, H.-E.), METASTROKE Consortium, Murugesan, G.\*, Newton-Cheh, C.\*, O'Connell, J.R.\*, Onland-Moret, N.C.\*, Ouwehand, W.H.\*, Palmas, W.\*, Penninx, B.W.\*, Pepine, C.J.\*, Pettinger, M.\*, Polak, J.F.\*, Ramachandran, V.S.\*, Ranchalis, J.\*, Redline, S.\*, Ridker, P.M.\*, Rose, L.M.\*, Scharnag, H.\*, Schork, N.J.\*, Shimbo, D.\*, Shuldiner, A.R.\*, Srinivasan, S.R.\*, Stolk, R.P.\*, Taylor, H.A.\*, Thorand, B., Trip, M.D.\*, van Duijn, C.M.\*, Verschuren, W.M.\*, Wijmenga, C.\*, Winkelmann, B.R.\*, Wyatt, S.\*, Young, J.H.\*, Boehm, B.O.\*, Caulfield, M.J.\*, Chasman, D.I.\*, Davidson, K.W.\*, Doevendans, P.A.\*, Fitzgerald, G.A.\*, Gums, J.G.\*, Hakonarson, H.\*, Hillege, H.L.\*, Illig, T., Jarvik, G.P.\*, Johnson, J.A.\*, Kastelein, J.J.\*, Koenig, W.\*, LifeLines Cohort Study, Marz, W.\*, Mitchell, B.D.\*, Murray, S.S.\*, Oldehinkel, A.J.\*, Rader, D.J.\*, Reilly, M.P.\*, Reiner, A.P.\*, Schadt, E.E.\*, Silverstein, R.L.\*, Snieder, H.\*, Stanton, A.V.\*, Uitterlinden, A.G.\*, van der Harst, P.\*, van der Schouw, Y.T.\*, Samani, N.J.\*, Johnson, A.D.\*, Munroe, P.B.\*, de Bakker, P.I.\*, Zhu, X.\*, Levy, D.\*, Keating, B.J.\*, Asselbergs, F.W.\*: Loci influencing blood pressure identified using a cardiovascular gene-centric array. Hum. Mol. Genet. **22**, 1663-1678 (2013)

Ganguly, D.\*, Haak, S., Sisirak, V.\*, Reizis, B.\*: The role of dendritic cells in autoimmunity. *Nat. Rev. Immunol.* **13**, 566-577 (2013)

Garger, E.K.\*, Meisenberg, O., Odintsov, O.\*, Shynkarenko, V.\*, Tschiersch, J.: Solubility of hot fuel particles from Chernobyl – influencing parameters for individual radiation dose calculations. *Talanta* **115**, 40-46 (2013)

Gassenmaier, M.\*, Chen, D.\*, Buchner, A.\*, Henkel, L., Schiemann, M., Mack, B.\*, Schendel, D.J., Zimmermann, W.\*, Pohla, H.: CXC chemokine receptor 4 is essential for maintenance of renal cell carcinoma-initiating cells and predicts metastasis. *Stem Cells* **31**, 1467-1476 (2013)

Gaudin, R.\*, Bèrre, S.\*, Cunha de Alencar, B.\*, Decalf, J.\*, Schindler, M., Gobert, F.X.\*, Jouve, M.\*, Benaroch, P.\*: Dynamics of HIV-containing compartments in macrophages reveal sequestration of virions and transient surface connections. *PLoS ONE* **8**:e69450 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Gehring, U.\*, Gruzieva, O.\*, Agius, R.M.\*, Beelen, R.\*, Custovic, A.\*, Cyrys, J., Eeftens, M.\*, Flexeder, C., Fuertes, E., Heinrich, J., Hoffmann, B.\*, de Jongste, J.C.\*, Kerkhof, M.\*, Klümper, C.\*, Korek, M.\*, Mölter, A.\*, Schultz, E.S.\*, Simpson, A.\*, Sugiri, D.\*, Svartengren, M.\*, von Berg, A.\*, Wijga, A.H.\*, Pershagen, G.\*, Brunekreef, B.\*: Air pollution exposure and lung function in children: The ESCAPE project. *Environ. Health Perspect.* **121**, 1357-1364 (2013)

Gehring, U.\*, Casas, M.\*, Brunekreef, B.\*, Bergström, A.\*, Bonde, J.P.\*, Botton, J.\*, Chévrier, C.\*, Cordier, S.\*, Heinrich, J., Hohmann, C.\*, Keil, T.\*, Sunyer, J.\*, Tischer, C.G., Toft, G.\*, Wickman, M.\*, Vrijheid, M.\*, Nieuwenhuijsen, M.\*: Environmental exposure assessment in European birth cohorts: Results from the ENRIECO project. *Environ. Health* **12**:8 (2013)

Geiser, M.\*, Quaile, O.\*, Wenk, A., Wigge, C.\*, Eigeldinger-Berthou, S.\*, Hirn, S., Schäffler, M., Schleh, C., Möller, W., Mall, M.A.\*, Kreyling, W.G.: Cellular uptake and localization of inhaled gold nanoparticles in lungs of mice with chronic obstructive pulmonary disease. *Part. Fibre Toxicol.* **10**:19 (2013)

Genz, J.\*, Haastert, B.\*, Müller, H.\*, Verheyen, F.\*, Cole, D.\*, Rathmann, W.\*, Nowotny, B.\*, Roden, M.\*, Giani, G.\*, Mielck, A., Ohmann, C.\*, Icks, A.\*: Effekt einer evidenzbasierten Patienteninformation zur Prävention von Typ 2-Diabetes. *Gesundheitswesen*, DOI:10.1055/s-0032-1329998 (2013)

Gewies, A., Castineiras-Vilarino, M.\*, Ferch, U.\*, Jährling, N.\*, Heinrich, K.\*, Hoeckendorf, U.\*, Przemeck, G.K.H., Munding, M., Groß, O.\*, Schroeder, T., Horsch, M., Karran, E.L.\*, Majid, A.\*, Antonowicz, S.\*, Beckers, J., Hrabé de Angelis, M., Dodt, H.U.\*, Peschel, C.\*, Förster, I.\*, Dyer, M.J.S.\*, Ruland, J.; *Prdm6* is essential for cardiovascular development *in vivo*. *PLoS ONE* **8**:e81833 (2013)

Ghamari, A.\*, van de Corput, M.P.C.\*, Thongjuea, S.\*, van Cappellen, W.A.\*, van Ijcken, W.\*, van Haren, J.\*, Soler, E.\*, Eick, D., Lenhard, B.\*, Grosveld, F.G.\*: *In vivo* live imaging of RNA polymerase II transcription factories in primary cells. *Genes Dev.* **27**, 767-777 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Global Lipids Genetics Consortium, Willer, C.J.\*, Schmidt, E.M.\*, Sengupta, S.\*, Peloso, G.M.\*, Gustafsson, S.\*, Kanoni, S.\*, Ganna, A.\*, Chen, J.\*, Buchkovich, M.L.\*, Mora, S.\*, Beckmann, J.S.\*, Bragg-Gresham, J.L.\*, Chang, H.Y.\*, Demirkan, A.\*, Den Hertog, H.M.\*, Do, R.\*, Donnelly, L.A.\*, Ehret, G.B.\*, Esko, T.\*, Feitosa, M.F.\*, Ferreira, T.\*, Fischer, K.\*, Fontanillas, P.\*, Fraser, R.M.\*, Freitag, D.F.\*, Gurdasani, D.\*, Heikkilä, K.\*, Hyppönen, E.\*, Isaacs, A.\*, Jackson, A.U.\*, Johansson, A.\*, Johnson, T.\*, Kaakinen, M.\*, Kettunen, J.\*, Kleber, M.E.\*, Li, X.\*, Luan, J.\*, Lyytikäinen, L.P.\*, Magnusson, P.K.\*, Mangino, M.\*, Mihailov, E.\*, Montasser, M.E.\*, Müller-Nurasyid, M., Nolte, I.M.\*, O'Connell, J.R.\*, Palmer, C.D.\*, Perola, M.\*, Petersen, A.-K., Sanna, S.\*, Saxena, R., Service, S.K.\*, Shah, S.\*, Shungin, D.\*, Sidore, C.\*, Song, C.\*, Strawbridge, R.J.\*, Surakka, I.\*, Tanaka, T.\*, Teslovich, T.M.\*, Thorleifsson, G.\*, van den Herik, E.G.\*, Voight, B.F.\*, Volcik, K.A.\*, Waite, L.L.\*, Wong, A.\*, Wu, Y.\*, Zhang, W.\*, Absher, D.\*, Asiki, G.\*, Barroso, I.\*, Been, L.F.\*, Bolton, J.L.\*, Bonnycastle, L.L.\*, Brambilla, P.\*, Burnett, M.S.\*, Cesana, G.\*, Dimitriou, M.\*, Doney, A.S.\*, Döring, A., Elliott, P.\*, Epstein, S.E.\*, Eyjolfsson, G.I.\*, Gigante, B.\*, Goodarzi, M.O.\*, Grallert, H.H., Gravito, M.L.\*, Groves, C.J.\*, Hallmans, G.\*, Hartikainen, A.L.\*, Hayward, C.\*, Hernandez, D.\*, Hicks, A.A.\*, Holm, H.\*, Hung, Y.J.\*, Illig, T., Jones, M.R.\*, Kaleebu, P.\*, Kastelein, J.J.\*, Khaw, K.T.\*, Kim, E.\*, Klopp, N., Komulainen, P.\*, Kumari, M.\*, Langenberg, C.\*, Lehtimäki, T.\*, Lin, S.Y.\*, Lindstrom, J.\*, Loos, R.J.\*, Mach, F.\*, McArdle, W.L.\*, Meisinger, C., Mitchell, B.D.\*, Müller, G.\*, Nagaraja, R.\*, Narisu, N.\*, Nieminen, T.V.\*, Nsubuga, R.N.\*, Olafsson, I.\*, Ong, K.K.\*, Palotie, A.\*, Papamarkou, T.\*, Pomilla, C.\*, Pouta, A.\*, Rader, D.J.\*, Reilly, M.P.\*, Ridker, P.M.\*, Rivadeneira, F.\*, Rudan, I.\*, Ruokonen, A.\*, Samani, N.\*, Scharnagl, H.\*, Seeley, J.\*, Silander, K.\*, Stancáková, A.\*, Stirrups, K.\*, Swift, A.J.\*, Tiret, L.\*, Uitterlinden, A.G.\*, van Pelt, L.J.\*, Vedantam, S.\*, Wainwright, N.\*, Wijmenga, C.\*, Wild, S.H.\*, Willemsen, G.\*, Wilsgaard, T.\*, Wilson, J.F.\*, Young, E.H.\*, Zhao, J.H.\*, Adair, L.S.\*, Arveiler, D.\*, Assimes, T.L.\*, Bandinelli, S.\*, Bennett, F.\*, Bochud, M.\*, Boehm, B.O.\*, Boomsma, D.I.\*, Borecki, I.B.\*, Bornstein, S.R.\*, Bovet, P.\*, Burnier, M.\*, Campbell, H.\*, Chakravarti, A.\*, Chambers, J.C.\*, Chen, Y.D.\*, Collins, F.S.\*, Cooper, R.S.\*, Danesh, J.\*, Dedoussis, G.\*, de Faire, U.\*, Feranil, A.B.\*, Ferrieres, J.\*, Ferrucci, L.\*, Freimer, N.B.\*, Gieger, C., Groop, L.C.\*, Gudnason, V.\*, Gyllensten, U.\*, Hamsten, A.\*, Harris, T.B.\*, Hingorani, A.\*, Hirschhorn, J.N.\*, Hofman, A.\*, Hovingh, G.K.\*, Hsiung, C.A.\*, Humphries, S.E.\*, Hunt, S.C.\*, Hveem, K.\*, Iribarren, C.\*, Jarvelin, M.R.\*, Jula, A.\*, Kähönen, M.\*, Kaprio, J.\*, Kesaniemi, A.\*, Kivimaki, M.\*, Kooner, J.S.\*, Koudstaal, P.J.\*, Krauss, R.M.\*, Kuh, D.\*, Kuusisto, J.\*, Kyvik, K.O.\*, Laakso, M.\*, Lakka, T.A.\*, Lind, L.\*, Lindgren, C.M.\*, Martin, N.G.\*, Marz, W.\*, McCarthy, M.I.\*, McKenzie, C.A.\*, Meneton, P.\*, Metspalu, A.\*, Moilanen, L.\*, Morris, A.D.\*, Munroe, P.B.\*, Njølstad, I.\*, Pedersen, N.L.\*, Power, C.\*, Pramstaller, P.P.\*, Price, J.F.\*, Psaty, B.M.\*, Quertermous, T.\*, Rauramaa, R.\*, Saleheen, D.\*, Salomaa, V.\*, Sanghera, D.K.\*, Saramies, J.\*, Schwarz, P.E.\*, Sheu, W.H.\*, Shuldiner, A.R.\*, Siegbahn, A.\*, Spector, T.D.\*, Stefansson, K.\*, Strachan, D.P.\*, Tayo, B.O.\*, Tremoli, E.\*, Tuomilehto, J.\*, Uusitupa, M.\*, van Duijn, C.M.\*, Vollenweider, P.\*, Wallentin, L.\*, Wareham, N.J.\*, Whitfield, J.B.\*, Wolffenbuttel, B.H.\*, Ordovas, J.M.\*, Boerwinkle, E.\*, Palmer, C.N.\*, Thorsteinsdottir, U.\*, Chasman, D.I.\*, Rotter, J.I.\*, Franks, P.W.\*, Ripatti, S.\*, Cupples, L.A.\*, Sandhu, M.S.\*, Rich, S.S.\*, Boehnke, M.\*, Deloukas, P.\*, Kathiresan, S.\*, Mohlke, K.L.\*, Ingelsson, E.\*, Abecasis, G.R.\*: Discovery and refinement of loci associated with lipid levels. Nat. Genet. 45, 1274-1283 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Goek, O.-N.\*, Prehn, C., Sekula, P.\*, Römisch-Margl, W., Döring, A, Gieger, C., Heier, M., Koenig, W.\*, Wang-Sattler, R., Illig, T., Suhre, K., Adamski, J., Köttgen, A.\*, Meisinger, C.: Metabolites associate with kidney function decline and incident chronic kidney disease in the general population. *Nephrol. Dial. Transplant.* **28**, 2131-2138 (2013)

Gok, C., Gerstmann, U., Aytas, S.\*: Biosorption of radiostrontium by alginate beads: Application of isotherm models and thermodynamic studies. *J. Radioanal. Nucl. Chem.* **295**, 777-788 (2013)

Gok, C., Gerstmann, U., Höllriegl, V., Aytas, S.\*: Preparation of Ca-alginate biopolymer beads and investigation of their decorporation characteristics for <sup>85</sup>Sr, <sup>238</sup>U and <sup>234</sup>Th by *in vitro* experiments. *Radiat. Prot. Dosim.* **153**, 47-55 (2013)

Goldmann, T.\*, Wieghofer, P.\*, Müller, P.F.\*, Wolf, Y.\*, Varol, D.\*, Yona, S.\*, Brendecke, S.M.\*, Kierdorf, K.\*, Staszewski, O.\*, Datta, M.\*, Luedde, T.\*, Heikenwälder, M., Jung, S.\*, Prinz, M.\*: A new type of microglia gene targeting shows TAK1 to be pivotal in CNS autoimmune inflammation. *Nat. Neurosci.* **16**, 1618-1626 (2013)

Goller, T.\*, Seibold, U.K.\*, Kremmer, E., Voos, W.\*, Kolanus, W.\*: Atad3 function is essential for early post-implantation development in the mouse. *PLoS ONE* **8**:e54799 (2013)

Golsaz Shirazi, F.\*, Mohammadi, H.\*, Amiri, M.M.\*, Singethan, K., Xia, Y., Bayat, A.A.\*, Bahadori, M.\*, Rabbani, H.\*, Jeddi-Tehrani, M.\*, Protzer, U., Shokri, F.\*: Monoclonal antibodies to various epitopes of HBs antigen inhibit HBV infection. *J. Gastroenterol. Hepatol.*, DOI:10.1111/jgh.12483 (2013)

Gondi, G., Mysliwietz, J., Hulikova, A.\*, Jen, J.P.\*, Swietach, P.\*, Kremmer, E., Zeidler, R.: Antitumor efficacy of a monoclonal antibody that inhibits the activity of cancer-associated carbonic anhydrase XII. *Cancer Res.* **73**, 6494-6503 (2013)

González-Vasconcellos, I.M., Anastasov, N., Sanli-Bonazzi, B., Klymenko, O., Atkinson, M.J., Rosemann, M.: *Rb1* haploinsufficiency promotes telomere attrition and radiation-induced genomic instability. *Cancer Res.* **73**, 4247-4255 (2013)

Graff, M.\*, Ngwa, J.S.\*, Workalemahu, T.\*, Homuth, G.\*, Schipf, S.\*, Teumer, A.\*, Völzke, H.\*, Wallaschofski, H.\*, Abecasis, G.R.\*, Edward, L.\*, Francesco, C.\*, Sanna, S.\*, Scheet, P.\*, Schlessinger, D.\*, Sidore, C.\*, Xiao, X.\*, Wang, Z.\*, Chanock, S.J.\*, Jacobs, K.B.\*, Hayes, R.B.\*, Hu, F.\*, van Dam, R.M.\*, GIANT Consortium (Heid, I.M., Grallert, H.H., Wichmann, H.-E., Thiering, E., Gieger, C., Illig, T., Heinrich, J., Peters, A.), Crout, R.J.\*, Marazita, M.L.\*, Shaffer, J.R.\*, Atwood, L.D.\*, Fox, C.S.\*, Heard-Costa, N.L.\*, White, C.\*, Choh, A.C.\*, Czerwinski, S.A.\*, Demerath, E.W.\*, Dyer, T.D.\*, Towne, B.\*, Amin, N.\*, Oostra, B.A.\*, van Duijn, C.M.\*, Zillikens, M.C.\*, Esko, T.\*, Nelis, M.\*, Nikopensius, T.\*, Metspalu, A.\*, Strachan, D.P.\*, Monda, K.L.\*, Qi, L.\*, North, K.E.\*, Cupples, L.A.\*, Gordon-Larsen, P.\*, Berndt, S.I.\*: Genome-wide analysis of BMI in adolescents and young adults reveals additional insight into the effects of genetic loci over the life course. *Hum. Mol. Genet.* 22, 3597-3607 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Griese, M.\*, Kappler, M.\*, Eismann, C.\*, Ballmann, M.\*, Junge, S.\*, Rietschel, E.\*, van Koningsbruggen-Rietschel, S.\*, Staab, D.\*, Rolinck-Werninghaus, C.\*, Mellies, U.\*, Köhnlein, T.\*, Wagner, T.\*, König, S.\*, Teschler, H.\*, Heuer, H.E.\*, Kopp, M.\*, Heyder, S.\*, Hammermann, J.\*, Küster, P.\*, Honer, M.\*, Mansmann, U.\*, Beck-Speier, I., Hartl, D.\*, Fuchs, C.\*, Glutathione Study Group, Hector A.\*: Inhalation treatment with glutathione in patients with cystic fibrosis. A randomized clinical trial. *Am. J. Respir. Crit. Care Med.* **188**, 83-89 (2013)

Gross, E.\*, Meul, C.\*, Raab, S.\*, Propping, C.\*, Avril, S.\*, Aubele, M., Gkazepis, A.\*, Schuster, T.\*, Grebenchtchikov, N.\*, Schmitt, M.\*, Kiechle, M.\*, Meijer, J.\*, Vijzelaar, R.\*, Meindl, A.\*, van Kuilenburg, A.B.\*: Somatic copy number changes in *DPYD* are associated with lower risk of recurrence in triple-negative breast cancers. *Br. J. Cancer* **109**, 2347-2355 (2013)

Grunewald, T.G.\*, Willier, S.\*, Janik, D., Unland, R.\*, Reiss, C.\*, da Costa, O.P.\*, Buch, T.\*, Dirksen, U.\*, Richter, G.H.\*, Neff, F., Burdach, S.\*, Butt, E.\*: The zyxin-related protein Thyroid Receptor Interacting Protein 6 (TRIP6) is overexpressed in Ewing's sarcoma and promotes migration, invasion and cell growth. *Biol. Cell* **105**, 535-547 (2013)

Gu, B.\*, Eick, D., Bensaude, O.\*: CTD serine-2 plays a critical role in splicing and termination factor recruitment to RNA polymerase II *in vivo*. *Nucleic Acids Res.* **41**, 1591-1603 (2013)

Gu, J., Schnelle-Kreis, J., Pitz, M., Diemer, J.\*, Reller, A.\*, Zimmermann, R., Soentgen, J.\*, Peters, A., Cyrys, J.: Spatial and temporal variability of PM<sub>10</sub> sources in Augsburg, Germany. *Atmos. Environ.* **71**, 131-139 (2013)

Guenounou, S.\*, Bosquet, N.\*, Dembek, C.J., Le Grand, R.\*, Cosma, A.\*: OMIP-016: Characterization of antigen-responsive macaque and human T-cells. *Cytom. Part A* **83**, 182-184 (2013)

Guo, Y.\*, Lanktree, M.B.\*, Taylor, K.C.\*, Hakonarson, H.\*, Lange, L.A.\*, Keating, B.J.\*, IBC 50K SNP Array BMI Consortium (Baumert, J.J., Gieger, C., Gorski, M., Heid, I.M., Illig, T., Peters, A., Thorand, B., Wichmann, H.-E.): Gene-centric meta-analyses of 108912 individuals confirm known body mass index loci and reveal three novel signals. *Hum. Mol. Genet.* **22**, 184-201 (2013)

Häfner, S., Baumert, J., Emeny, R.T., Lacruz, M.E., Bidlingmaier, M.\*, Reincke, M., Ladwig, K.-H.: Hypertension and depressed symptomatology: A cluster related to the activation of the Renin-Angiotensin-Aldosterone System (RAAS). Findings from population based KORA F4 study. *Psychoneuroendocrinology* **38**, 2065-2074 (2013)

Hahne, H.\*, Pachl, F.\*, Ruprecht, B.\*, Maier, S.K., Klaeger, S.\*, Helm, D.\*, Médard, G.\*, Wilm, M.\*, Lemeer, S.\*, Kuster, B.\*: DMSO enhances electrospray response, boosting sensitivity of proteomic experiments. *Nat. Methods* **10**, 989-991 (2013)

Hajheidari, M.\*, Koncz, C.\*, Eick, D.: Emerging roles for RNA polymerase II CTD in *Arabidopsis*. *Trends Plant Sci.* **18**, 633-643 (2013)

Hammerschmidt, W., Sugden, B.\*: Replication of Epstein-Barr viral DNA. *Cold Spring Harbor Perspect. Biol.* **5**:a013029 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Hampel, R., Rückerl, R., Yli-Tuomi, T.\*, Breitner, S., Lanki, T.\*, Kraus, U., Cyrys, J., Belcredi, P., Brüske, I., Laitinen, T.M.\*, Timonen, K.\*, Wichmann, H.-E., Peters, A., Schneider, A.E.: Impact of personally measured pollutants on cardiac function. *Int. J. Hyg. Environ. Health.*, DOI:10.1016/j.ijheh.2013.09.002 (2013)

Hara, K.\*, Fujita, H.\*, Johnson, T.A.\*, Yamauchi, T.\*, Yasuda, K.\*, Horikoshi, M.\*, Peng, C.\*, Hu, C.\*, Ma, R.C.\*, Imamura, M.\*, Iwata, M.\*, Tsunoda, T.\*, Morizono, T.\*, Shojima, N.\*, So, W.Y.\*, Leung, T.F.\*, Kwan, P.\*, Zhang, R.\*, Wang, J.\*, Yu, W.\*, Maegawa, H.\*, Hirose, H.\*, DIAGRAM Consortium (Huth, C., Gieger, C., Klopp, N.B., Meitinger, T., Illig, T., Grallert, H.H., Thorand, B., Wichmann, H.-E., Petersen, A.-K.), Kaku, K.\*, Ito, C.\*, Watada, H.\*, Tanaka, Y.\*, Tobe, K.\*, Kashiwagi, A.\*, Kawamori, R.\*, Jia, W.\*, Chan, J.C.\*, Teo, Y.Y.\*, Shyong, T.E.\*, Kamatani, N.\*, Kubo, M.\*, Maeda, S.\*, Kadowaki, T.\*: Genome-wide association study identifies three novel loci for type 2 diabetes. *Hum. Mol. Genet.* 23, 239-246 (2014) [published online 2013]

Harder, L.\*, Eschenburg, G.\*, Zech, A.\*, Kriebitzsch, N.\*, Otto, B.\*, Streichert, T.\*, Behlich, A.S.\*, Dierck, K.\*, Klingler, B.\*, Hansen, A.\*, Stanulla, M.\*, Zimmermann, M.\*, Kremmer, E., Stocking, C.\*, Horstmann, M.A.\*: Aberrant ZNF423 impedes B cell differentiation and is linked to adverse outcome of *ETV6-RUNX1* negative B precursor acute lymphoblastic leukemia. *J. Exp. Med.* **210**, 2289-2304 (2013)

Harth-Hertle, M.L., Scholz, B.A., Erhard, F.\*, Glaser, L.V., Dölken, L.\*, Zimmer, R.\*, Kempkes, B.: Inactivation of intergenic enhancers by EBNA3A initiates and maintains polycomb signatures across a chromatin domain encoding CXCL10 and CXCL9. *PLoS Pathog.* **9**:e1003638 (2013)

Hausteiner-Wiehle, C.\*, Grosber, M.\*, Bubel, E.\*, Groben, S.\*, Bornschein, S.\*, Lahmann, C.\*, Eyer, F.\*, Eberlein, B.\*, Behrendt, H., Löwe, B.\*, Henningsen, P.\*, Huber, D.\*, Ring, J., Darsow, U.: "Medically Unexplained Symptoms" bei Patienten mit Verdacht auf Allergien: Die Rolle der psychiatrischen Komorbidität und der Arzt-Patienten-Interaktion. *Allergologie* **36**, 3-8 (2013)

Hector, A.\*, Kormann, M.\*, Kammermeier, J.\*, Burdi, S.\*, Marcos, V.\*, Rieber, N.\*, Mays, L.\*, Illig, T., Klopp, N., Falkenstein, F.\*, Kappler, M.\*, Riethmueller, J.\*, Graepler-Mainka, U.\*, Stern, M.\*, Eickmeier, O.\*, Serve, F.\*, Zielen, S.\*, Döring, G.\*, Griese, M.\*, Hartl, D.\*: Expression and regulation of interferon-related development regulator-1 in cystic fibrosis neutrophils. *Am. J. Respir. Cell Mol. Biol.* **48**, 71-77 (2013)

Heikkilä, K.\*, Fransson, E.I.\*, Nyberg, S.T.\*, Zins, M.\*, Westerlund, H.\*, Westerholm, P.J.\*, Virtanen, M.\*, Vahtera, J.\*, Suominen, S.\*, Steptoe, A.\*, Salo, P.\*, Pentti, J.\*, Oksanen, T.\*, Nordin, M.\*, Marmot, M.G.\*, Lunau, T.\*, Ladwig, K.-H., Koskenvuo, M.\*, Knutsson, A.\*, Kittel, F.\*, Jockel, K.H.\*, Goldberg, M.\*, Erbel, R.\*, Dragano, N.\*, Debacquer, D.\*, Clays, E.\*, Casini, A.\*, Alfredsson, L.\*, Ferrie, J.E.\*, Singh-Manoux, A.\*, Batty, G.D.\*, Kivimaki, M.\*: Job strain and health-related lifestyle: Findings from an individual-participant meta-analysis of 118000 working adults. *Am. J. Public Health* **103**, 2090-2097 (2013)

Heimbeck, I., Wjst, M., Apfelbacher, C.J.\*: Low vitamin D serum level is inversely associated with eczema in children and adolescents in Germany. *Allergy* **68**, 906-910 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Hein, R.\*, Flesch-Janys, D.\*, Dahmen, N.\*, Beckmann, L.\*, Lindström, S.\*, Schoof, N.\*, Czene, K.\*, Mittelstraß, K., Illig, T., Seibold, P.\*, Behrens, S.\*, Humphreys, K.\*, Li, J.\*, Liu, J.\*, Olson, J.E.\*, Wang, X.\*, Hankinson, S.E.\*, Truong, T.\*, Menegaux, F.\*, Dos Santos Silva, I.\*, Johnson, N.\*, GENICA Network\*, Chen, S.T.\*, Yu, J.C.\*, Ziogas, A.\*, Kataja, V.\*, Kosma, V.M.\*, Mannermaa, A.\*, Anton-Culver, H.\*, Shen, C.Y.\*, Brauch, H.\*, Peto, J.\*, Guénel, P.\*, Kraft, P.\*, Couch, F.J.\*, Easton, D.F.\*, Hall, P.\*, Chang-Claude, J.\*: A genome-wide association study to identify genetic susceptibility loci that modify ductal and lobular postmenopausal breast cancer risk associated with menopausal hormone therapy use: A two-stage design with replication. *Breast Cancer Res. Treat.* **138**, 529-542 (2013)

Heinrich, J., Thiering, E., Rzehak, P., Krämer, U.\*, Hochadel, M., Rauchfuss, K.M.\*, Gehring, U., Wichmann, H.-E.: Long-term exposure to NO<sub>2</sub> and PM<sub>10</sub> and all-cause and cause-specific mortality in a prospective cohort of women. *Occup. Environ. Med.* **70**, 179-186 (2013)

Heissmeyer, V., Vogel, K.U.: Molecular control of Tfh-cell differentiation by Roquin family proteins. *Immunol. Rev.* **253**, 273-289 (2013)

Hek, K.\*, Demirkan, A.\*, Lahti, J.\*, Terracciano, A.\*, Teumer, A.\*, Cornelis, M.C.\*, Amin, N.\*, Bakshis, E.\*, Baumert, J., Ding, J.Z.\*, Liu, Y.M.\*, Marciante, K.\*, Meirelles, O.\*, Nalls, M.A.\*, Sun, Y.V.\*, Vogelzangs, N.\*, Yu, L.\*, Bandinelli, S.\*, Benjamin, E.J.\*, Bennett, D.A.\*, Boomsma, D.\*, Cannas, A.\*, Coker, L.H.\*, de Geus, E.\*, de Jager, P.L.\*, Diez-Roux, A.V.\*, Purcell, S.\*, Hu, F.B.\*, Rimm, E.B.\*, Hunter, D.J.\*, Jensen, M.K.\*, Curhan, G.\*, Rice, K.\*, Penman, A.D.\*, Rotter, J.I.\*, Sotoodehnia, N.\*, Emeny, R., Eriksson, J.G.\*, Evans, D.A.\*, Ferrucci, L.\*, Fornage, M.\*, Gudnason, V.\*, Hofman, A.\*, Illig, T., Kardia, S.\*, Kelly-Hayes, M.\*, Koenen, K.\*, Kraft, P.\*, Kuningas, M.\*, Massaro, J.M.\*, Melzer, D.\*, Mulas, A.\*, Mulder, C.L.\*, Murray, A.\*, Oostra, B.A.\*, Palotie, A.\*, Penninx, B.\*, Petersmann, A.\*, Pilling, L.C.\*, Psaty, B.\*, Rawal, R., Reiman, E.M.\*, Schulz, A.\*, Shulman, J.M.\*, Singleton, A.B.\*, Smith, A.V.\*, Sutin, A.R.\*, Uitterlinden, A.G.\*, Völzke, H.\*, Widen, E.\*, Yaffe, K.\*, Zonderman, A.B.\*, Cucca, F.\*, Harris, T.\*, Ladwig, K.-H., Llewellyn, D.J.\*, Räikkönen, K.\*, Tanaka, T.\*, van Duijn, C.M.\*, Grabe, H.J.\*, Launer, L.J.\*, Lunetta, K.L.\*, Mosley, T.H.\*, Newman, A.B.\*, Tiemeier, H.\*, Murabito, J.\*: A genome-wide association study of depressive symptoms. *Biol. Psychiatry* 73, 667-678 (2013)

Helbig, A.K., Döring, A., Heier, M., Emeny, R.T., Zimmermann, A.-K., Autenrieth, C.S., Ladwig, K.-H., Grill, E.\*, Meisinger, C.: Association between sleep disturbances and falls among the elderly: Results from the German Cooperative Health Research in the Region of Augsburg-age study. *Sleep Med.* **14**, 1356-1363 (2013)

Hellert, J.\*, Weidner-Glunde, M.\*, Krausze, J.\*, Richter, U.\*, Adler, H., Fedorov, R.\*, Pietrek, M.\*, Rückert, J.\*, Ritter, C.\*, Schulz, T.F.\*, Lührs, T.\*: A structural basis for BRD2/4-mediated host chromatin interaction and oligomer assembly of Kaposi sarcoma-associated herpesvirus and murine gammaherpesvirus LANA proteins. *PLoS Pathog.* **9**:e1003640 (2013)

Helm, F.\*, Kammertoens, T.\*, Lehmann, F.M., Wilke, A.\*, Bruns, H.\*, Mautner, J., Bornkamm, G.W., Gerbitz, A.\*: Targeting c-MYC with T-cells. *PLoS ONE* **8**:e77375 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Herber-Jonat, S.\*, Mittal, R.\*, Huppmann, M.\*, Hammel, M.\*, Liebisch, G.\*, Yildirim, A.Ö., Eickelberg, O., Schmitz, G.\*, Hrabé de Angelis, M., Flemmer, A.W.\*, Holzinger, A.\*: Abca3 haploinsufficiency is a risk factor for lung injury induced by hyperoxia or mechanical ventilation in a murine model. *Pediatr. Res.* **74**, 384-392 (2013)

Herder, C.\*, Bongaerts, B.W.\*, Rathmann, W.\*, Heier, M., Kowall, B.\*, Koenig, W.\*, Thorand, B., Roden, M.\*, Meisinger, C., Ziegler, D.\*: Association of subclinical inflammation with polyneuropathy in the older population: KORA F4 study. *Diabetes Care* **36**, 3663-3870 (2013)

Hertz-Schünemann, R.\*, Streibel, T., Ehlert, S.\*, Zimmermann, R.: Looking into individual coffee beans during the roasting process: Direct micro-probe sampling on-line photo-ionisation mass spectrometric analysis of coffee roasting gases. *Anal. Bioanal. Chem.* **405**, 7083-7096 (2013)

Herzog, F.\*, Clift, M.J.\*, Piccapietra, F.\*, Behra, R.\*, Schmid, O., Petri-Fink, A.\*, Rothen-Rutishauser, B.\*: Exposure of silver-nanoparticles and silver-ions to lung cells *in vitro* at the airliquid interface. *Part. Fibre Toxicol.* **10**:11 (2013)

Herzog, N.\*, Hartkamp, J.D.H.\*, Verheugd, P.\*, Treude, F.\*, Forst, A.H.\*, Feijs, K.L.H.\*, Lippok, B.E.\*, Kremmer, E., Kleine, H.\*, Lüscher, B.\*: Caspase-dependent cleavage of the mono-ADP-ribosyltransferase ARTD10 interferes with its pro-apoptotic function. *FEBS J.* **280**, 1330-1343 (2013)

Hesse, J.\*, Ameres, S., Besold, K.\*, Krauter, S.\*, Moosmann, A., Plachter, B.\*: Suppression of CD8<sup>+</sup> T cell recognition in the immediate-early phase of human cytomegalovirus infection. *J. Gen. Virol.* **94**, 376-386 (2013)

Hilgendorff, A., Reiss, I.\*, Ehrhardt, H.\*, Eickelberg, O., Alvira, C.M.\*: Chronic lung disease in the preterm infant: Lessons learned from animal models. *Am. J. Respir. Cell Mol. Biol.* **50**, 233-245 (2014) [published online 2013]

Hinkofer, L.C., Seidel, S.A.\*, Korkmaz, B., Silva, F.\*, Hummel, A.M.\*, Braun, D.\*, Jenne, D.E., Specks, U.\*: A monoclonal antibody (MCPR3-7) interfering with the activity of proteinase 3 by an allosteric mechanism. *J. Biol. Chem.* **288**, 26635-26648 (2013)

Hinney, A.\*, Wolters, B.\*, Pütter, C.\*, Grallert, H.H., Illig, T., Hebebrand, J.\*, Reinehr, T.\*: No impact of obesity susceptibility loci on weight regain after a lifestyle intervention in overweight children. *J. Pediatr. Endocrinol. Metab.* **26**, 1209-1213 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Ho, J.E.\*, Chen, W.Y.\*, Chen, M.H.\*, Larson, M.G.\*, McCabe, E.L.\*, Cheng, S.\*, Ghorbani, A.\*, Coglianese, E.\*, Emilsson, V.\*, Johnson, A.D.\*, Walter, S.\*, Franceschini, N.\*, O'Donnell, C.J.\*, CARDIOGRAM Consortium (Wichmann, H.-E., Döring, A., Illig, T., Meisinger, C., Peters, A., Meitinger, T., Klopp, N.B.), CHARGE Inflammation Working Group, Dehghan, A.\*, Lu, C.\*, Levy, D.\*, Newton-Cheh, C.\*, CHARGE Consortium Heart Failure Group, Lin, H.\*, Felix, J.F.\*, Schreiter, E.R.\*, Vasan, R.S.\*, Januzzi, J.L. Jr.\*, Lee, R.T.\*, Wang, T.J.\*, Assimes, T.L.\*, Deloukas, P.\*, Erdmann, J.\*, Holm, H.\*, Kathiresan, S.\*, König, I.R.\*, McPherson, R.\*, Reilly, M.P.\*, Roberts, R.\*, Samani, N.J.\*, Schunkert, H.\*, Stewart, A.F.\*: Common genetic variation at the *IL1RL1* locus regulates IL-33/ST2 signaling. *J. Clin. Invest.* **123**, 4208-4218 (2013)

Hoek, G.\*, Krishnan, R.M.\*, Beelen, R.\*, Peters, A., Ostro, B.\*, Brunekreef, B.\*, Kaufman, J.D.\*: Long-term air pollution exposure and cardio-respiratory mortality: A review. *Environ. Health* **12**:43 (2013)

Hoffmann, D., Mauroy, A.\*, Seebach, J., Simon, V.\*, Wantia, N.\*, Protzer, U.: New norovirus classified as a recombinant GII.g/GII.1 causes an extended foodborne outbreak at a university hospital in Munich. *J. Clin. Virol.* **58**, 24-30 (2013)

Högl, S.\*, Meinel, F.G.\*, Thieme, S.F.\*, Johnson, T.R.\*, Eickelberg, O., Zwissler, B.\*, Nikolaou, K.\*: Worsening respiratory function in mechanically ventilated intensive care patients: Feasibility and value of xenon-enhanced dual energy CT. *Eur. J. Radiol.* **82**, 557-562 (2013)

Holle, R., Hunger, M., Schunk, M.: Gesundheitsbezogene Lebensqualität bei Personen mit Typ-2-Diabetes: Ergebnisse aus bevölkerungsbasierten Studien in Deutschland. *Diabetes Stoffwech. Herz* **22**, 313-315 (2013)

Holmans, P.\*, Moskvina, V.\*, Jones, L.\*, Sharma, M.\*, International Parkinson's Disease Genomics Consortium (IPDGC) (Illig, T., Lichtner, P.), Vedernikov, A.\*, Buchel, F.\*, Sadd, M.\*, Bras, J.M.\*, Bettella, F.\*, Nicolaou, N.\*, Simon-Sanchez, J.\*, Mittag, F.\*, Gibbs, J.R.\*, Schulte, C.\*, Dürr, A.\*, Guerreiro, R.\*, Hernandez, D.\*, Brice, A.\*, Stefansson, H.\*, Majamaa, K.\*, Gasser, T.\*, Heutink, P.\*, Wood, N.W.\*, Martinez, M.\*, Singleton, A.B.\*, Nalls, M.A.\*, Hardy, J.\*, Morris, H.R.\*, Williams, N.M.\*: A pathway-based analysis provides additional support for an immune-related genetic susceptibility to Parkinson's disease. *Hum. Mol. Genet.* 22, 1039-1049 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Horikoshi, M.\*, Yaghootkar, H.\*, Mook-Kanamori, D.O.\*, Sovio, U.\*, Taal, H.R.\*, Hennig, B.J.\*, Bradfield, J.P.\*, St Pourcain, B.\*, Evans, D.M.\*, Charoen, P.\*, Kaakinen, M.\*, Cousminer, D.L.\*, Lehtimäki, T.\*, Kreiner-Møller, E.\*, Warrington, N.M.\*, Bustamante, M.\*, Feenstra, B.\*, Berry, D.J.\*, Thiering, E., Pfab, T.\*, Barton, S.J.\*, Shields, B.M.\*, Kerkhof, M.\*, van Leeuwen, E.M.\*, Fulford, A.J.\*, Kutalik, Z.\*, Zhao, J.H.\*, den Hoed, M.\*, Mahajan, A.\*, Lindi, V.\*, Goh, L.K.\*, Hottenga, J.J.\*, Wu, Y.\*, Raitakari, O.T.\*, Harder, M.N.\*, Meirhaeghe, A.\*, Ntalla, I.\*, Salem, R.M.\*, Jameson, K.A.\*, Zhou, K.\*, Monies, D.M.\*, Lagou, V.\*, Kirin, M.\*, Heikkinen, J.\*, Adair, L.S.\*, Alkuraya, F.S.\*, Al-Odaib, A.\*, Amouyel, P.\*, Andersson, E.A.\*, Bennett, A.J.\*, Blakemore, A.I.\*, Buxton, J.L.\*, Dallongeville, J.\*, Das, S.\*, de Geus, E.J.\*, Estivill, X.\*, Flexeder, C.\*, Froquel, P.\*, Geller, F.\*, Godfrey, K.M.\*, Gottrand, F.\*, Groves, C.J.\*, Hansen, T.\*, Hirschhorn, J.N.\*, Hofman, A.\*, Hollegaard, M.V.\*, Hougaard, D.M.\*, Hyppönen, E.\*, Inskip, H.M.\*, Isaacs, A.\*, Jørgensen, T.\*, Kanaka-Gantenbein, C.\*, Kemp, J.P.\*, Kiess, W.\*, Kilpeläinen, T.O.\*, Klopp, N., Knight, B.A.\*, Kuzawa, C.W.\*, McMahon, G.\*, Newnham, J.P.\*, Niinikoski, H.\*, Oostra, B.A.\*, Pedersen, L.\*, Postma, D.S.\*, Ring, S.M.\*, Rivadeneira, F.\*, Robertson, N.R.\*, Sebert, S.\*, Simell, O.\*, Slowinski, T.\*, Tiesler, C.M.T., Tönjes, A.\*, Vaag, A.\*, Viikari, J.S.\*, Vink, J.M.\*, Vissing, N.H.\*, Wareham, N.J.\*, Willemsen, G.\*, Witte, D.R.\*, Zhang, H.\*, Zhao, J.\*, MAGIC Consortium (Wichmann, H.-E., Thorand, B., Illig, T., Grallert, H.H., Meisinger, C., Gieger, C.), Early Growth Genetics Consortium, Wilson, J.F.\*, Stumvoll, M.\*, Prentice, A.M.\*, Meyer, B.F.\*, Pearson, E.R.\*, Boreham, C.A.\*, Cooper, C.\*, Gillman, M.W.\*, Dedoussis, G.V.\*, Moreno, L.A.\*, Pedersen, O.\*, Saarinen, M.\*, Mohlke, K.L.\*, Boomsma, D.I.\*, Saw, S.M.\*, Lakka, T.A.\*, Körner, A.\*, Loos, R.J.\*, Ong, K.K.\*, Vollenweider, P.\*, van Duijn, C.M.\*, Koppelman, G.H.\*, Hattersley, A.T.\*, Holloway, J.W.\*, Hocher, B.\*, Heinrich, J., Power, C.\*, Melbye, M.\*, Guxens, M.\*, Pennell, C.E.\*, Bønnelykke, K.\*, Bisgaard, H.\*, Eriksson, J.G.\*, Widen, E.\*, Hakonarson, H.\*, Uitterlinden, A.G.\*, Pouta, A.\*, Lawlor, D.A.\*, Smith, G.D.\*, Frayling, T.M.\*, McCarthy, M.I.\*, Grant, S.F.\*, Jaddoe, V.W.\*, Jarvelin, M.R.\*, Timpson, N.J.\*, Prokopenko, I.\*, Freathy, R.M.\*: New loci associated with birth weight identify genetic links between intrauterine growth and adult height and metabolism. Nat. Genet. 45, 76-82 (2013)

Hossann, M., Wang, T., Syunyaeva, Z.\*, Wiggenhorn, M.\*, Zengerle, A.\*, Issels, R.D., Reiser, M.\*, Lindner, L.H., Peller, M.\*: Non-ionic Gd-based MRI contrast agents are optimal for encapsulation into phosphatidyldiglycerol-based thermosensitive liposomes. *J. Control. Release* **166**, 22-29 (2013)

Hu, Y.J.\*, Berndt, S.I.\*, Gustafsson, S.\*, Ganna, A.\*, GIANT Consortium (Heid, I.M., Thiering, E., Grallert, H.H., Heinrich, J., Illig, T.), Hirschhorn, J.\*, North, K.E.\*, Ingelsson, E.\*, Lin, D.Y.\*: Meta-analysis of gene-level associations for rare variants based on single-variant statistics. *Am. J. Hum. Genet.* **93**, 236-248 (2013)

Huang, L.R.\*, Wohlleber, D.\*, Reisinger, F., Jenne, C.N.\*, Cheng, R.L.\*, Abdullah, Z.\*, Schildberg, F.A.\*, Odenthal, M.\*, Dienes, H.P.\*, van Rooijen, N.\*, Schmitt, E.\*, Garbi, N.\*, Croft, M.\*, Kurts, C.\*, Kubes, P.\*, Protzer, U., Heikenwälder, M., Knolle, P.A.\*: Intrahepatic myeloid-cell aggregates enable local proliferation of CD8<sup>+</sup> T cells and successful immunotherapy against chronic viral liver infection. *Nat. Immunol.* **14**, 574-583 (2013)

Huke, V.\*, Rudloff, S.\*, Brugger, M., Strauch, K., Berthold, L.D.\*, Landmann, E.\*: Prematurity is not associated with intra-abdominal adiposity in 5- to 7-year-old children. *J. Pediatr.* **163**, 1301-1306 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Hunger, M., Schwarzkopf, L., Heier, M., Peters, A., Holle, R., KORA Study Group (Holle, R., Wichmann, H.-E., John, J., Illig, T., Meisinger, C., Peters, A.): Official statistics and claims data records indicate non-response and recall bias within survey-based estimates of health care utilization in the older population. *BMC Health Serv. Res.* **13**:1 (2013)

Icks, A.\*, Claessen, H.\*, Strassburger, K.\*, Tepel, M.\*, Waldeyer, R.\*, Chernyak, N.\*, Albers, B.\*, Baechle, C.\*, Rathmann, W.\*, Meisinger, C., Thorand, B., Hunger, M., Schunk, M., Stark, R.G., Rückert, I.-M., Peters, A., Huth, C., Stöckl, D., Giani, G.\*, Holle, R.: Drug costs in prediabetes and undetected diabetes compared with diagnosed diabetes and normal glucose tolerance: Results from the population-based KORA survey in Germany. *Diabetes Care* **36**, 53-54 (2013)

Icks, A.\*, Claessen, H.\*, Strassburger, K.\*, Waldeyer, R.\*, Chernyak, N.\*, Jülich, F.\*, Rathmann, W.\*, Thorand, B., Meisinger, C., Huth, C., Rückert, I.-M., Schunk, M., Giani, G.\*, Holle, R.: Patient time costs attributable to healthcare use in diabetes: Results from the population-based KORA survey in Germany. *Diabetic Med.* **30**, 1245-1249 (2013)

IL6R Genetics Consortium, Emerging Risk Factors Collaboration (Döring, A., Meisinger, C.): Interleukin-6 receptor pathways in coronary heart disease: A collaborative meta-analysis of 82 studies. *Lancet* **379**, 1205-1213 (2012)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

International Multiple Sclerosis Genetics Consortium (Illig, T.\*, Lichtner, P.), Beecham, A.H.\*, Patsopoulos, N.A.\*, Xifara, D.K.\*, Davis, M.F.\*, Kemppinen, A.\*, Cotsapas, C.\*, Shah, T.S.\*, Spencer, C.\*, Booth, D.\*, Goris, A.\*, Oturai, A.\*, Saarela, J.\*, Fontaine, B.\*, Hemmer, B.\*, Martin, C.\*, Zipp, F.\*, D'Alfonso, S.\*, Martinelli-Boneschi, F.\*, Taylor, B.\*, Harbo, H.F.\*, Kockum, I.\*, Hillert, J.\*, Olsson, T.\*, Ban, M.\*, Oksenberg, J.R.\*, Hintzen, R.\*, Barcellos, L.F.\*, Wellcome Trust Case Control Consortium 2 (WTCCC2) (Rückert, I.-M., Klopp, N.B., Wichmann, H.-E.), International IBD Genetics Consortium (IIBDGC), Agliardi, C.\*, Alfredsson, L.\*, Alizadeh, M.\*, Anderson, C.\*, Andrews, R.\*, Søndergaard, H.B.\*, Baker, A.H.\*, Band, G.\*, Baranzini, S.E.\*, Barizzone, N.\*, Barrett, J.\*, Bellenguez, C.\*, Bergamaschi, L.\*, Bernardinelli, L.\*, Berthele, A.\*, Biberacher, V.\*, Binder, T.M.\*, Blackburn, H.\*, Bomfim, I.L.\*, Brambilla, P.\*, Broadley, S.\*, Brochet, B.\*, Brundin, L.\*, Buck, D.\*, Butzkueven, H.\*, Caillier, S.J.\*, Camu, W.\*, Carpentier, W.\*, Cavalla, P.\*, Celius, E.G.\*, Coman, I.\*, Comi, G.\*, Corrado, L.\*, Cosemans, L.\*, Cournu-Rebeix, I.\*, Cree, B.A.C.\*, Cusi, D.\*, Damotte, V.\*, Defer, G.\*, Delgado, S.R.\*, Deloukas, P.\*, di Sapio, A.\*, Dilthey, A.T.\*, Donnelly, P.\*, Dubois, B.\*, Duddy, M.\*, Edkins, S.\*, Elovaara, I.\*, Esposito, F.\*, Evangelou, N.\*, Fiddes, B.\*, Field, J.\*, Franke, A.\*, Freeman, C.\*, Frohlich, I.Y.\*, Galimberti, D.\*, Gieger, C., Gourraud, P.A.\*, Graetz, C.\*, Graham, A.\*, Grummel, V.\*, Guaschino, C.\*, Hadjixenofontos, A.\*, Hakonarson, H.\*, Halfpenny, C.\*, Hall, G.\*, Hall, P.\*, Hamsten, A.\*, Harley, J.\*, Harrower, T.\*, Hawkins, C.\*, Hellenthal, G.\*, Hillier, C.\*, Hobart, J.\*, Hoshi, M.\*, Hunt, S.E.\*, Jagodic, M.\*, Jelčić, I.\*, Jochim, A.\*, Kendall, B.\*, Kermode, A.\*, Kilpatrick, T.\*, Koivisto, K.\*, Konidari, I.\*, Korn, T.\*, Kronsbein, H.C.\*, Langford, C.\*, Larsson, M.\*, Lathrop, M.\*, Lebrun-Frenay, C.\*, Lechner-Scott, J.\*, Lee, M.H.\*, Leone, M.A.\*, Leppä, V.\*, Liberatore, G.\*, Lie, B.A.\*, Lill, C.M.\*, Lindén, M.\*, Link, J.\*, Luessi, F.\*, Lycke, J.\*, Macciardi, F.\*, Männisto, S.\*, Manrique, C.P.\*, Martin, R.\*, Martinelli, V.\*, Mason, D.\*, Mazibrada, G.\*, McCabe, C.\*, Mero, I.L.\*, Mescheriakova, J.\*, Moutsianas, L.\*, Myhr, K.M.\*, Nagels, G.\*, Nicholas, R.\*, Nilsson, P.\*, Piehl, F.\*, Pirinen, M.\*, Price, S.E.\*, Quach, H.\*, Reunanen, M.\*, Robberecht, W.\*, Robertson, N.P.\*, Rodegher, M.\*, Rog, D.\*, Salvetti, M.\*, Schnetz-Boutaud, N.C.\*, Sellebjerg, F.\*, Selter, R.C.\*, Schaefer, C.\*, Shaunak, S.\*, Shen, L.\*, Shields, S.\*, Siffrin, V.\*, Slee, M.\*, Sorensen, P.S.\*, Sorosina, M.\*, Sospedra, M.\*, Spurkland, A.\*, Strange, A.\*, Sundqvist, E.\*, Thijs, V.\*, Thorpe, J.\*, Ticca, A.\*, Tienari, P.\*, van Duijn, C.\*, Visser, E.M.\*, Vucic, S.\*, Westerlind, H.\*, Wiley, J.S.\*, Wilkins, A.\*, Wilson, J.F.\*, Winkelmann, J., Zajicek, J.\*, Zindler, E.\*, Haines, J.L.\*, Pericak-Vance, M.A.\*, Ivinson, A.J.\*, Stewart, G.\*, Hafler, D.\*, Hauser, S.L.\*, Compston, A.\*, McVean, G.\*, de Jager, P.L.\*, Sawcer, S.J.\*, McCauley, J.L.\*: Analysis of immune-related loci identifies 48 new susceptibility variants for multiple sclerosis. Nat. Genet. 45, 1353-1360 (2013)

Ittermann, T.\*, Tiller, D.\*, Meisinger, C., Agger, C.\*, Nauck, M.\*, Rettig, R.\*, Hofman, A.\*, Jørgensen, T.\*, Linneberg, A.\*, Witteman, J.C.\*, Franco, O.H.\*, Greiser, K.H.\*, Werdan, K.\*, Döring, A., Kluttig, A.\*, Stricker, B.H.\*, Völzke, H.\*: High serum thyrotropin levels are associated with current but not with incident hypertension. *Thyroid* **23**, 955-963 (2013)

Ittermann, T.\*, Markus, M.R.\*, Schipf, S.\*, Derwahl, M.\*, Meisinger, C., Völzke, H.\*: Metformin inhibits goitrogenous effects of type 2 diabetes. *Eur. J. Endocrinol.* **169**, 9-15 (2013)

Jackstadt, R.\*, Röh, S.\*, Neumann, J.\*, Jung, P.\*, Hoffmann, R.\*, Horst, D.\*, Berens, C.\*, Bornkamm, G.W., Kirchner, T.\*, Menssen, A.\*, Hermeking, H.\*: AP4 is a mediator of epithelial-mesenchymal transition and metastasis in colorectal cancer. *J. Exp. Med.* **210**, 1331-1350 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Jacob, P., Stram, D.O.\*: Late health effects of radiation exposure: New statistical, epidemiological, and biological approaches. *Int. J. Radiat. Biol.* **89**, 673-683 (2013)

Jaeger, T., Andres, C.\*, Grosber, M.\*, Zirbs, M.\*, Hein, R.\*, Ring, J.\*, Traidl-Hoffmann, C.: Pyoderma gangrenosum and concomitant hidradenitis suppurativa - rapid response to canakinumab (anti-IL-1β). *Eur. J. Dermatol.* **23**, 408-410 (2013)

Jansen, L.\*, Eberle, A.\*, Emrich, K.\*, Gondos, A.\*, Holleczek, B.\*, Kajüter, H.\*, Maier, W., Nennecke, A.\*, Pritzkuleit, R.\*, Brenner, H.\*: Socioeconomic deprivation and cancer survival in Germany: An ecological analysis in 200 districts in Germany. *Int. J. Cancer*, DOI:10.1002/ijc.28624 (2013)

Jeliazkova, P.\*, Jors, S.\*, Lee, M.\*, Zimber-Strobl, U., Ferrer, J.\*, Schmid, R.M.\*, Siveke, J.T.\*, Geisler, F.\*: Canonical notch2 signaling determines biliary cell fates of embryonic hepatoblasts and adult hepatocytes independent of Hes1. *Hepatology* **57**, 2469-2479 (2013)

John, G., Kohse, K., Orasche, J., Reda, A., Schnelle-Kreis, J., Zimmermann, R., Schmid, O., Eickelberg, O., Yildirim, A.Ö.: The composition of cigarette smoke determines inflammatory cell recruitment to the lung in COPD mouse models. *Clin. Sci.* **126**, 207-221 (2014) [published online 2013]

John, J., Teuner, C.M.: Combating pediatric obesity in Germany: The role of economic findings in informing policy. *Expert Rev. Pharmacoecon. Outcomes. Res.* **12**, 733-743 (2012)

Jourdan, C., Linseisen, J., Meisinger, C., Petersen, A.-K., Gieger, C., Rawal, R., Illig, T., Heier, M., Peters, A., Wallaschofski, H.\*, Nauck, M.\*, Kastenmüller, G., Suhre, K., Prehn, C., Adamski, J., Koenig, W.\*, Roden, M.\*, Wichmann, H.-E., Völzke, H.\*: Associations between thyroid hormones and serum metabolite profiles in an euthyroid population. *Metabolomics* **10**, 152-164 (2014) [published online 2013]

Junemann, A.G.M.\*, Stopa, P.\*, Michalke, B., Chaudhri, A.\*, Reulbach, U.\*, Huchzermeyer, C.\*, Schlotzer-Schrehardt, U.\*, Kruse, F.E.\*, Zrenner, E.\*, Rejdak, R.\*: Levels of aqueous humor trace elements in patients with non-exsudative age-related macular degeneration: A case-control study. *PLoS ONE* **8**:e56734 (2013)

Kaireit, T.\*, Stamm, G.\*, Hoeschen, C., Wacker, F.K.\*: Smartphones jetzt noch smarter? - Möglichkeit des Einsatzes als "Dosiswarner". *RoeFo, Fortschr. Geb. Roentgenstr.* **185**, 558-562 (2013)

Karakas, M.\*, Thorand, B., Zierer, A., Huth, C., Meisinger, C., Roden, M.\*, Rottbauer, W.\*, Peters, A., Koenig, W.\*, Herder, C.\*: Low levels of serum 25-hydroxyvitamin D are associated with increased risk of myocardial infarction, especially in women: Results from the MONICA/KORA Augsburg case-cohort study. *J. Clin. Endocrinol. Metab.* **98**, 272-280 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Keildson, S.\*, Fadista, J.\*, Ladenvall, C.\*, Hedman, A.K.\*, Elgzyri, T.\*, Small, K.S.\*, Grundberg, E.\*, Nica, A.C.\*, Glass, D.\*, Richards, J.B.\*, Barrett, A.\*, Nisbet, J.\*, Zheng, H.F.\*, Rönn, T.\*, Ström, K.\*, Eriksson, K.F.\*, Prokopenko, I.\*, MAGIC Consortium (Grallert, H.H., Gieger, C., Thorand, B., Meisinger, C., Illig, T., Wichmann, H.-E.), DIAGRAM Consortium (Huth, C., Grallert, H.H., Klopp, N.B., Meitinger, T., Petersen, A.-K., Thorand, B., Wichmann, H.-E., Illig, T., Gieger, C.), MuTHER Consortium, Spector, T.D.\*, Dermitzakis, E.T.\*, Deloukas, P.\*, McCarthy, M.I.\*, Rung, J.\*, Groop, L.\*, Franks, P.W.\*, Lindgren, C.M.\*, Hansson, O.\*: Skeletal muscle expression of phosphofructokinase is influenced by genetic variation and associated with insulin sensitivity. *Diabetes* **63**, 1154-1165 (2014) [published online 2013]

Keller, M.F.\*, Saad, M.\*, Bras, J.\*, Bettella, F.\*, Nicolaou, N.\*, Simon-Sanchez, J.\*, Mittag, F.\*, Buchel, F.\*, Sharma, M.\*, Gibbs, J.R.\*, Schulte, C.\*, Moskvina, V.\*, Dürr, A.\*, Holmans, P.\*, Kilarski, L.L.\*, Guerreiro, R.\*, Hernandez, D.G.\*, Brice, A.\*, Ylikotila, P.\*, Stefansson, H.\*, Majamaa, K.\*, Morris, H.R.\*, Williams, N.\*, Gasser, T.\*, Heutink, P.\*, Wood, N.W.\*, Hardy, J.\*, Martinez, M.\*, Singleton, A.B.\*, Nalls, M.A.\*, International Parkinson's Disease Genomics Consortium (IPDGC) (Illig, T., Lichtner, P.), Wellcome Trust Case Control Consortium 2 (WTCCC2): Using genome-wide complex trait analysis to quantify 'missing heritability' in Parkinson's disease. *Hum. Mol. Genet.* 21, 4996-5009 (2012)

Kempf, S.J., Azimzadeh, O., Atkinson, M.J., Tapio, S.: Long-term effects of ionising radiation on the brain: Cause for concern? *Radiat. Environ. Biophys.* **52**, 5-16 (2013)

Kendzia, B.\*, Behrens, T.\*, Jockel, K.H.\*, Siemiatycki, J.\*, Kromhout, H.\*, Vermeulen, R.\*, Peters, S.\*, van Gelder, R.\*, Olsson, A.\*, Brüske, I., Wichmann, H.-E., Stücker, I.\*, Guida, F.\*, Tardón, A.\*, Merletti, F.\*, Mirabelli, D.\*, Richiardi, L.\*, Pohlabeln, H.\*, Ahrens, W.\*, Landi, M.T.\*, Caporaso, N.\*, Consonni, D.\*, Zaridze, D.\*, Szeszenia-Dabrowska, N.\*, Lissowska, J.\*, Gustavsson, P.\*, Marcus, M.W.\*, Fabianova, E.\*, 't Mannetje, A.\*, Pearce, N.\*, Tse, L.A.\*, Yu, I.T.\*, Rudnai, P.\*, Bencko, V.\*, Janout, V.\*, Mates, D.\*, Foretova, L.\*, Forastiere, F.\*, McLaughlin, J.\*, Demers, P.\*, Bueno-de-Mesquita, B.\*, Boffetta, P.\*, Schüz, J.\*, Straif, K.\*, Pesch, B.\*, Brüning, T.\*: Welding and lung cancer in a pooled analysis of case-control studies. *Am. J. Epidemiol.* **178**, 1513-1525 (2013)

Kerr, G.D.\*, Egbert, S.D.\*, Al-Nabulsi, I.\*, Beck, H.L.\*, Cullings, H.M.\*, Endo, S.\*, Hoshi, M.\*, Imanaka, T.\*, Kaul, D.C.\*, Maruyama, S.\*, Reeves, G.I.\*, Ruehm, W., Sakaguchi, A.\*, Simon, S.L.\*, Spriggs, G.D.\*, Stram, D.O.\*, Tonda, T.\*, Weiss, J.F.\*, Weitz, R.L.\*, Young, R.W.\*: Workshop report on atomic bomb dosimetry-RESIDUAL radiation exposure: Recent research and suggestions for future studies. *Health Phys.* **105**, 140-149 (2013)

Keusekotten, K.\*, Elliott, P.R.\*, Glockner, L., Fiil, B.K.\*, Damgaard, R.B.\*, Kulathu, Y.\*, Wauer, T.\*, Hospenthal, M.K.\*, Gyrd-Hansen, M.\*, Krappmann, D., Hofmann, K.\*, Komander, D.\*: OTULIN antagonizes LUBAC signaling by specifically hydrolyzing Met1-linked polyubiquitin. *Cell* **153**, 1312-1326 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Kierdorf, K.\*, Erny, D.\*, Goldmann, T.\*, Sander, V.\*, Schulz, C.\*, Perdiguero, E.G.\*, Wieghofer, P.\*, Heinrich, A.\*, Riemke, P.\*, Hölscher, C.\*, Müller, D.N.\*, Luckow, B.\*, Brocker, T.\*, Debowski, K.\*, Fritz, G.\*, Opdenakker, G.\*, Diefenbach, A.\*, Biber, K.\*, Heikenwälder, M., Geissmann, F.\*, Rosenbauer, F.\*, Prinz, M.\*: Microglia emerge from erythromyeloid precursors via Pu.1- and Irf8-dependent pathways. *Nat. Neurosci.* **16**, 273-280 (2013)

Kim, J., Badaloni, A.\*, Willert, T., Zimber-Strobl, U., Kühn, R., Wurst, W., Kieslinger, M.: An RNAi-based approach to down-regulate a gene family *in vivo*. *PLoS ONE* **8**:e80312 (2013)

Kirchner, M., Faus-Kessler, T., Jakobi, G., Leuchner, M.\*, Ries, L.\*, Scheel, H.-E.\*, Suppan, P.\*: Altitudinal temperature lapse rates in an Alpine valley: Trends and the influence of season and weather patterns. *Int. J. Climatol.* **33**, 539-555 (2013)

Kirchner, M., Fegg, W., Römmelt, H.\*, Leuchner, M.\*, Ries, L.\*, Zimmermann, R., Michalke, B., Wallasch, M.\*, Maguhn, J., Faus-Kessler, T., Jakobi, G.: Nitrogen deposition along differently exposed slopes in the Bavarian Alps. *Sci. Total Environ.* **470-471**, 895-906 (2014) [published online 2013]

Kirsch, F., Teuner, C.M., Menn, P., Leidl, R.: Krankheitskosten für Asthma und COPD bei Erwachsenen in der Bundesrepublik Deutschland. *Gesundheitswesen* **75**, 413-423 (2013)

Klebe, S.\*, Golmard, J.L.\*, Nalls, M.A.\*, Saad, M.\*, Singleton, A.B.\*, Bras, J.M.\*, Hardy, J.\*, Simon-Sanchez, J.\*, Heutink, P.\*, Kuhlenbäumer, G.\*, Charfi, R.\*, Klein, C.\*, Hagenah, J.\*, Gasser, T.\*, Wurster, I.\*, Lesage, S.\*, Lorenz, D.\*, Deuschl, G.\*, Durif, F.\*, Pollak, P.\*, Damier, P.\*, Tison, F.\*, Dürr, A.\*, Amouyel, P.\*, Lambert, J.C.\*, Tzourio, C.\*, Maubaret, C.\*, Charbonnier-Beaupel, F.\*, Tahiri, K.\*, Vidailhet, M.\*, Martinez, M.\*, Brice, A.\*, Corvol, J.C.\*, French Parkinson's Disease Genetics Study Group, International Parkinson's Disease Genomics Consortium (IPDGC) (Illig, T., Lichtner, P.): The Val158Met COMT polymorphism is a modifier of the age at onset in Parkinson's disease with a sexual dimorphism. *J. Neurol. Neurosurg. Psychiatr.* **84**, 666-673 (2013)

Kleeblatt, J., Ehlert, S., Hölzer, J., Sklorz, M., Rittgen, J., Baumgartel, P.\*, Schubert, J.K.\*, Zimmermann, R.: Investigation of the photoionization properties of pharmaceutically relevant substances by resonance-enhanced multiphoton ionization spectroscopy and single-photon ionization spectroscopy using synchrotron radiation. *Appl. Spectrosc.* **67**, 860-872 (2013)

Knoll, N.\*, Jarick, I.\*, Volckmar, A.-L.\*, Klingenspor, M.\*, Illig, T., Grallert, H.H., Gieger, C., Wichmann, H.-E., Peters, A., Hebebrand, J.\*, Scherag, A.\*, Hinney, A.\*: Gene set of nuclear-encoded mitochondrial regulators is enriched for common inherited variation in obesity. *PLoS ONE* **8**:e55884 (2013)

Koerber, F., Rolauffs, B.\*, Rogowski, W.: Early evaluation and value-based pricing of regenerative medicine technologies. *Regen. Med.* **8**, 747-758 (2013)

Kohlboeck, G., Koletzko, S.\*, Bauer, C.P.\*, von Berg, A.\*, Berdel, D.\*, Krämer, U.\*, Schaaf, B.\*, Lehmann, I.\*, Herbarth, O.\*, Heinrich, J.: Association of atopic and non-atopic asthma with emotional symptoms in school children. *Pediatr. Allergy Immunol.* **24**, 230-236 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Kohlboeck, G., Romanos, M.\*, Teuner, C.M., Holle, R., Tiesler, C.M., Hoffmann, B.\*, Schaaf, B.\*, Lehmann, I.\*, Herbarth, O.\*, Koletzko, S.\*, Bauer, C.P.\*, von Berg, A.\*, Berdel, D.\*, Heinrich, J.: Healthcare use and costs associated with children's behavior problems. *Eur. Child Adolesc. Psych.*, DOI:10.1007/s00787-013-0504-9 (2013)

Kohlboeck, G., Romanos, M.\*, Tiesler, C.M., Koletzko, S.\*, Kratzsch, J.\*, Thiery, J.\*, Bauer, C.P.\*, von Berg, A.\*, Berdel, D.\*, Hoffmann, B.\*, Schaaf, B.\*, Lehmann, I.\*, Herbarth, O.\*, Heinrich, J., GINIplus Study Group (Heinrich, J., Wichmann, H.-E.), LISAplus Study Group (Heinrich, J., Wichmann, H.-E.): Peer problems are associated with elevated serum leptin levels in children. *Psychol. Med.* **44**, 255-265 (2014) [published online 2013]

Kölbl, A.C.\*, Weigl, D.\*, Mulaw, M.A., Thormeyer, T.\*, Bohlander, S.K., Cremer, T.\*, Dietzel, S.\*: The radial nuclear positioning of genes correlates with features of megabase-sized chromatin domains. *Chromosome Res.* **20**, 735-752 (2012)

Konus, M.\*, Koy, C.\*, Mikkat, S.\*, Kreutzer, M.\*, Zimmermann, R., Iscan, M.\*, Glocker, M.O.\*: Molecular adaptations of *Helicoverpa armigera* midgut tissue under pyrethroid insecticide stress characterized by differential proteome analysis and enzyme activity assays. *Comp. Biochem. Physiol. D-Genomics Proteomics* **8**, 152-162 (2013)

Koppensteiner, H.\*, Höhne, K., Gondim, M.V., Gobert, F.-X.\*, Widder, M.\*, Gundlach, S.\*, Heigele, A.\*, Kirchhoff, F.\*, Winkler, M.\*, Benaroch, P.\*, Schindler, M.: Lentiviral Nef suppresses iron uptake in a strain specific manner through inhibition of Transferrin endocytosis. *Retrovirology* **11**:1 (2014) [published online 2013]

Korber, K., Teuner, C.M., Lampert, T.\*, Mielck, A., Leidl, R.: Direkte Krankheitskosten von Diabetes mellitus in Deutschland: Erste Abschätzung der Unterschiede zwischen Bildungsgruppen. *Gesundheitswesen* **75**, 812-818 (2013)

Korfei, M.\*, von der Beck, D.\*, Henneke, I.\*, Markart, P.\*, Ruppert, C.\*, Mahavadi, P.\*, Ghanim, B.\*, Klepetko, W.\*, Fink, L.\*, Meiners, S., Krämer, O.H.\*, Seeger, W.\*, Vancheri, C.\*, Guenther, A.\*: Comparative proteome analysis of lung tissue from patients with idiopathic pulmonary fibrosis (IPF), non-specific interstitial pneumonia (NSIP) and organ donors. *J. Proteomics* **85**, 109-128 (2013)

Korkmaz, B.\*, Lesner, A.\*, Letast, S.\*, Mahdi, Y.K.\*, Jourdan, M.L.\*, Dallet-Choisy, S.\*, Marchand-Adam, S.\*, Kellenberger, C.\*, Viaud-Massuard, M.C.\*, Jenne, D.E., Gauthier, F.\*: Neutrophil proteinase 3 and dipeptidyl peptidase I (cathepsin C) as pharmacological targets in granulomatosis with polyangiitis (Wegener granulomatosis). *Semin. Immunopathol.* **35**, 411-21 (2013)

Korkmaz, B.\*, Jenne, D.E., Gauthier, F.\*: Relevance of the mouse model as a therapeutic approach for neutrophil proteinase 3-associated human diseases. *Int. Immunopharmacol.* **17**, 1198–1205 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Korschen, H.G.\*, Yildiz, Y.\*, Raju, D.N.\*, Schonauer, S.\*, Bonigk, W.\*, Jansen, V.\*, Kremmer, E., Kaupp, U.B.\*, Wachten, D.\*: The non-lysosomal β-glucosidase GBA2 is a non-integral membrane-associated protein at the Endoplasmic Reticulum (ER) and golgi. *J. Biol. Chem.* **288**, 3381-3393 (2013)

Koumakis, E.\*, Bouaziz, M.\*, Dieudé, P.\*, Ruiz, B.\*, Riemekasten, G.\*, Airo, P.\*, Müller-Nurasyid, M., Cusi, D.\*, Matucci-Cerinic, M.\*, Melchers, I.\*, Salvi, E.\*, Strauch, K., Peters, A., Cuomo, G.\*, Hachulla, E.\*, Diot, E.\*, Hunzelmann, N.\*, Caramaschi, P.\*, Riccieri, V.\*, Distler, J.H.\*, Tarner, I.\*, Avouac, J.\*, Letenneur, L.\*, Amouyel, P.\*, Lambert, J.C.\*, Chiocchia, G.\*, Boileau, C.\*, Allanore, Y.\*: Brief report: A regulatory variant in CCR6 is associated with susceptibility to antitopoisomerase-positive systemic sclerosis. *Arthritis Rheum.* **65**, 3202-3208 (2013)

Kowall, B.\*, Rathmann, W.\*, Bongaerts, B.\*, Thorand, B., Belcredi, P., Heier, M., Huth, C., Rückert, I.-M., Stöckl, D., Peters, A., Meisinger, C.: Are diabetes risk scores useful for the prediction of cardiovascular diseases? Assessment of seven diabetes risk scores in the KORA S4/F4 cohort study. *J. Diabetes Complications* **27**, 340-345 (2013)

Kowall, B.\*, Ebert, N.\*, Then, C.\*, Thiery, J.\*, Koenig, W.\*, Meisinger, C., Rathmann, W.\*, Seissler, J.\*: Associations between blood glucose and carotid intima-media thickness disappear after adjustment for shared risk factors: The KORA F4 study. *PLoS ONE* **7**:e52590 (2012)

Kowall, B.\*, Peters, A., Thorand, B., Rathmann, W.\*, Meisinger, C.: Associations between longevity of parents and glucose regulation in their offspring: The KORA S4/F4 study. *Diabetologia* **56**, 268-274 (2013)

Kowalski, M.L.\*, Asero, R.\*, Bavbek, S.\*, Blanca, M.\*, Blanca-Lopez, N.\*, Bochenek, G.\*, Brockow, K., Campo, P.\*, Celik, G.\*, Cernadas, J.R.\*, Cortellini, G.\*, Gomes, E.R.\*, Niżankowska-Mogilnicka, E.\*, Romano, A.\*, Szczeklik, A.\*, Testi, S.\*, Torres, M.J.\*, Wohrl, S.\*, Makowska, J.\*: Classification and practical approach to the diagnosis and management of hypersensitivity to nonsteroidal anti-inflammatory drugs. *Allergy* **68**, 1219-1232 (2013)

Kraemer, A., Barjaktarovic, Z., Sarioglu, H., Winkler, K., Eckardt-Schupp, F., Tapio, S., Atkinson, M.J., Mörtl, S.: Cell survival following radiation exposure requires miR-525-3p mediated suppression of ARRB1 and TXN1. *PLoS ONE* **8**:e77484 (2013)

Krähling, A.M.\*, Alvarez, L.\*, Debowski, K.\*, Van, Q.\*, Gunkel, M.\*, Irsen, S.\*, Al-Amoudi, A.\*, Strünker, T.\*, Kremmer, E., Krause, E.\*, Voigt, I.\*, Wörtge, S.\*, Waisman, A.\*, Weyand, I.\*, Seifert, R.\*, Kaupp, U.B.\*, Wachten, D.\*: CRIS - a novel cAMP-binding protein controlling spermiogenesis and the development of flagellar bending. *PLoS Genet.* **9**:e1003960 (2013)

Kraus, U., Schneider, A.E., Breitner, S., Hampel, R., Rückerl, R., Pitz, M.\*, Geruschkat, U., Belcredi, P., Radon, K.\*, Peters, A.: Individual day-time noise exposure during routine activities and heart rate variability in adults: A repeated measures study. *Environ. Health Perspect.* **121**, 607-612 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Krause, F.\*, Wenk, A., Lacor, C.\*, Kreyling, W.G., Möller, W., Verbanck, S.\*: Numerical and experimental study on the deposition of nanoparticles in an extrathoracic oral airway model. *J. Aerosol. Sci.* **57**, 131-143 (2013)

Krebs, K.M., Böttinger, N., Huang, L.R.\*, Chmielewski, M.\*, Arzberger, S., Gasteiger, G., Jager, C., Schmitt, E.\*, Bohne, F., Aichler, M., Uckert, W.\*, Abken, H.\*, Heikenwälder, M., Knolle, P.\*, Protzer, U.: T cells expressing a chimeric antigen receptor that binds hepatitis B virus envelope proteins control virus replication in mice. *Gastroenterology* **145**, 456-465 (2013)

Kreth, S.\*, Limbeck, E.\*, Hinske, L.C.\*, Schütz, S.V.\*, Thon, N.\*, Hoefig, K.P., Egensperger, R.\*, Kreth, F.W.\*: In human glioblastomas transcript elongation by alternative polyadenylation and miRNA targeting is a potent mechanism of MGMT silencing. *Acta Neuropathol.* **125**, 671-681 (2013)

Kreuzer, M.\*, Sogl, M.\*, Brüske, I., Möhner, M.\*, Nowak, D.\*, Schnelzer, M.\*, Walsh, L.\*: Silica dust, radon and death from non-malignant respiratory diseases in German uranium miners. *Occup. Environ. Med.* **70**, 869-875 (2013)

Kriebel, J., Illig, T., Grallert, H.H.: Epigenetische Prozesse beim Typ-2-Diabetes. Beitrag zum Verständnis der genetischen Prädisposition. *Diabetologe* **9**, 243-250 (2013)

Kruglov, A.A.\*, Grivennikov, S.I.\*, Kuprash, D.V.\*, Winsauer, C.\*, Prepens, S.\*, Seleznik, G.M.\*, Eberl, G.\*, Littman, D.R.\*, Heikenwälder, M., Tumanov, A.V.\*, Nedospasov, S.A.\*: Nonredundant function of soluble  $LT\alpha_3$  produced by innate lymphoid cells in intestinal homeostasis. *Science* **342**, 1243-1246 (2013)

Krupka, C., Kufer, P.\*, Kischel, R.\*, Zugmaier, G.\*, Bögeholz, J., Köhnke, T., Lichtenegger, F.S., Schneider, S.\*, Metzeler, K.H.\*, Fiegl, M.\*, Spiekermann, K., Baeuerle, P.A.\*, Hiddemann, W., Riethmüller, G.\*, Subklewe, M.: CD33 target validation and sustained depletion of AML blasts in long-term cultures by the bispecific T-cell-engaging antibody AMG 330. *Blood* **123**, 356-365 (2014) [published online 2013]

Kuhn, A., Schulze, C.\*, Kutzer, P.\*, Probst, C.\*, Hlinak, A.\*, Ochs, A.\*, Grunow, R.\*: Tularaemia seroprevalence of captured and wild animals in Germany: The fox (*Vulpes vulpes*) as a biological indicator. *Epidemiol. Infect.* **141**, 833-840 (2013)

Kuhn, T.\*, Kaaks, R.\*, Becker, S.\*, Eomois, P.P.\*, Clavel-Chapelon, F.\*, Kvaskoff, M.\*, Dossus, L.\*, Tjønneland, A.\*, Olsen, A.\*, Overvad, K.\*, Chang-Claude, J.\*, Lukanova, A.\*, Buijsse, B.\*, Boeing, H.\*, Trichopoulou, A.\*, Lagiou, P.\*, Bamia, C.\*, Masala, G.\*, Krogh, V.\*, Sacerdote, C.\*, Tumino, R.\*, Mattiello, A.\*, Buckland, G.\*, Sánchez, M.J.\*, Menéndez, V.\*, Chirlaque, M.D.\*, Barricarte, A.\*, Bueno-de-Mesquita, H.B.\*, van Duijnhoven, F.J.\*, van Gils, C.H.\*, Bakker, M.F.\*, Weiderpass, E.\*, Skeie, G.\*, Brustad, M.\*, Andersson, A.\*, Sund, M.\*, Wareham, N.\*, Khaw, K.T.\*, Travis, R.C.\*, Schmidt, J.A.\*, Rinaldi, S.\*, Romieu, I.\*, Gallo, V.\*, Murphy, N.\*, Riboli, E.\*, Linseisen, J.: Plasma 25-hydroxyvitamin D and the risk of breast cancer in the European prospective investigation into cancer and nutrition: A nested case-control study. *Int. J. Cancer* 133, 1689-1700 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Kuhnisch, J.\*, Thiering, E., Heitmüller, D.\*, Tiesler, C.M.T., Grallert, H.H., Heinrich-Weltzien, R.\*, Hickel, R.\*, Heinrich, J., GINI-10 plus Study Group (Wichmann, H.-E., Heinrich, J., Sausenthaler, S., Zutavern, A., Chen, C.-M., Schnappinger, M., Rzehak, P.), LISA-10 plus Study Group (Wichmann, H.-E., Heinrich, J., Sausenthaler, S., Chen, C.-M., Schnappinger, M.): Genome-Wide Association Study (GWAS) for Molar-Incisor Hypomineralization (MIH). *Clin. Oral Investig.* **18**, 677-682 (2014) [published online 2013]

Kutscher, S., Dembek, C.J., Deckert, S., Russo, C., Körber, N., Bogner, J.R.\*, Geisler, F.\*, Umgelter, A.\*, Neuenhahn, M., Albrecht, J., Cosma, A.\*, Protzer, U., Bauer, T.: Overnight resting of PBMC changes functional signatures of antigen specific T- Cell responses: Impact for immune monitoring within clinical trials. *PLoS ONE* **8**:e76215 (2013)

Lacruz, M.-E., Emeny, R., Bickel, H.\*, Linkohr, B., Ladwig, K.-H.: Feasibility, internal consistency and covariates of TICS-m (Telephone Interview for Cognitive Status - modified) in a population-based sample: Findings from the KORA-Age study. *Int. J. Geriatr. Psychiatr.* **28**, 971-978 (2013)

Ladwig, K.-H., Brockhaus, A.C., Baumert, J., Lukaschek, K., Emeny, R.T., Kruse, J.\*, Codd, V.\*, Häfner, S., Albrecht, E., Illig, T., Samani, N.J.\*, Wichmann, H.-E., Gieger, C., Peters, A.: Posttraumatic stress disorder and not depression is associated with shorter leukocyte telomere length: Findings from 3,000 participants in the population-based KORA F4 study. *PLoS ONE* **8**:e64762 (2013)

Lal, D.\*, Trucks, H.\*, Møller, R.S.\*, Hjalgrim, H.\*, Koeleman, B.P.\*, de Kovel, C.G.F.\*, Visscher, F.\*, Weber, Y.G.\*, Lerche, H.\*, Becker, F.\*, Schankin, C.J.\*, Neubauer, B.A.\*, Surges, R.\*, Kunz, W.S.\*, Zimprich, F.\*, Franke, A.\*, Illig, T., Ried, J.S., Leu, C.\*, Nürnberg, P.\*, Sander, T.\*, EMINet Consortium, EPICURE Consortium: Rare exonic deletions of the *RBFOX1* gene increase risk of idiopathic generalized epilepsy. *Epilepsia* **54**, 265-271 (2013)

Lam, V.K.\*, Ma, R.C.\*, Lee, H.M.\*, Hu, C.\*, Park, K.S.\*, Furuta, H.\*, Wang, Y.\*, Tam, C.H.\*, Sim, X.\*, Ng, D.P.\*, Liu, J.\*, Wong, T.Y.\*, Tai, E.S.\*, Morris, A.P.\*, DIAGRAM Consortium (Huth, C., Grallert, H.H., Gieger, C., Meitinger, T., Thorand, B., Klopp, N.B., Wichmann, H.-E., Illig, T., Petersen, A.-K.), Tang, N.L.\*, Woo, J.\*, Leung, P.C.\*, Kong, A.P.\*, Ozaki, R.\*, Jia, W.P.\*, Lee, H.K.\*, Nanjo, K.\*, Xu, G.\*, Ng, M.C.\*, So, W.Y.\*, Chan, J.C.\*: Genetic associations of type 2 diabetes with islet amyloid polypeptide processing and degrading pathways in asian populations. *PLoS ONE* **8**:e62378 (2013)

Laxy, M., Holle, R., Döring, A., Petter, A., Hunger, M.: The longitudinal association between weight change and health-related quality of life: The KORA S4/F4 cohort study. *Int. J. Public Health*, DOI:10.1007/s00038-013-0506-x (2013)

Lee, J.H.\*, Wittki, S.\*, Brau, T.\*, Dreyer, F.S.\*, Kratzel, K.\*, Dindorf, J.\*, Johnston, I.C.D.\*, Gross, S.\*, Kremmer, E., Zeidler, R.\*, Schlotzer-Schrehardt, U.\*, Lichtenheld, M.\*, Saksela, K.\*, Harrer, T.\*, Schuler, G.\*, Federico, M.\*, Baur, A.S.\*: HIV Nef, paxillin, and Pak1/2 regulate activation and secretion of TACE/ADAM10 proteases. *Mol. Cell* **49**, 668-679 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Lee, M., Pellegata, N.S.: Multiple endocrine neoplasia syndromes associated with mutation of p27. *J. Endocrinol. Invest.* **36**, 781-787 (2013)

Lee, M.S., Pellegata, N.S.: Multiple endocrine neoplasia type 4. Front. Horm. Res. 41, 63-78 (2013)

Lee, M.S., Marinoni, I., Irmler, M., Psaras, T.\*, Honegger, J.B.\*, Beschorner, R.\*, Anastasov, N., Beckers, J., Theodoropoulou, M.\*, Roncaroli, F.\*, Pellegata, N.S.: Transcriptome analysis of MENX-associated rat pituitary adenomas identifies novel molecular mechanisms involved in the pathogenesis of human pituitary gonadotroph adenomas. *Acta Neuropathol.* **126**, 137-150 (2013)

Leitritz, M.A.\*, Hense, H.W.\*, Schiefer, U.\*, Nagel, M.\*, Greiser, H.\*, Linseisen, J., Heid, I.M.\*, Fischer, B.\*, Thierry, S., Bartz-Schmidt, K.U.\*, Ueffing, M.\*: Entwicklung und erste Anwendungserfahrungen einer schnellen und kostengünstigen ophthalmologischen Untersuchung für die Nationale Kohorte. *Klin. Monatsbl. Augenheilkd.* **230**, 1238-1246 (2013)

Lenz, A.-G., Karg, E.W., Brendel, E., Hinze-Heyn, H., Maier, K.L., Eickelberg, O., Stöger, T., Schmid, O.: Inflammatory and oxidative stress responses of an alveolar epithelial cell line to airborne zinc oxide nanoparticles at the air-liquid interface: A comparison with conventional, submerged cell-culture conditions. *J. Biomed. Biotechnol.* **2013**:652632 (2013)

Li, H.\*, Gan, W.\*, Lu, L.\*, Dong, X.\*, Han, X.\*, Hu, C.\*, Yang, Z.\*, Sun, L.\*, Bao, W.\*, Li, P.\*, He, M.\*, Wang, Y.\*, Zhu, J.\*, Ning, Q.\*, Tang, Y.\*, Zhang, R.\*, Wen, J.\*, Wang, D.\*, Zhu, X.\*, Guo, K.\*, Zuo, X.\*, Guo, X.\*, Yang, H.\*, Zhou, X.\*, DIAGRAM Consortium (Huth, C., Grallert, H.H., Gieger, C., Klopp, N.B., Petersen, A.-K., Thorand, B., Wichmann, H.-E., Illig, T., Meitinger, T.), AGEN-T2D Consortium, Zhang, X.\*, Qi, L.\*, Loos, R.J.\*, Hu, F.B.\*, Wu, T.\*, Liu, Y.\*, Liu, L.\*, Hu, R.\*, Jia, W.\*, Ji, L.\*, Li, Y.\*, Lin, X.\*: A genome-wide association study identifies *GRK5* and *RASGRP1* as type 2 diabetes loci in Chinese Hans. *Diabetes* **62**, 291-298 (2013)

Li, L.\*, ten Hagen, T.L.M.\*, Hossann, M., Süss, R.\*, van Rhoon, G.C.\*, Eggermont, A.M.M.\*, Haemmerich, D.\*, Koning, G.A.\*: Mild hyperthermia triggered doxorubicin release from optimized stealth thermosensitive liposomes improves intratumoral drug delivery and efficacy. *J. Control. Release* **168**, 142-150 (2013)

Li, Y.\*, Zhang, F.\*, Liang, X.\*, Yediler, A.: Chemical and toxicological evaluation of an emerging pollutant (enrofloxacin) by catalytic wet air oxidation and ozonation in aqueous solution. *Chemosphere* **90**, 284-291 (2013)

Li, Z.\*, Herold, T., He, C.\*, Valk, P.J.\*, Chen, P.\*, Jurinovic, V.\*, Mansmann, U.\*, Radmacher, M.D.\*, Maharry, K.S.\*, Sun, M.\*, Yang, X.\*, Huang, H.\*, Jiang, X.\*, Sauerland, M.C.\*, Büchner, T.\*, Hiddemann, W., Elkahloun, A.\*, Neilly, M.B.\*, Zhang, Y.\*, Larson, R.A.\*, Le Beau, M.M.\*, Caligiuri, M.A.\*, Döhner, K.\*, Bullinger, L.\*, Liu, P.P.\*, Delwel, R.\*, Marcucci, G.\*, Lowenberg, B.\*, Bloomfield, C.D.\*, Rowley, J.D.\*, Bohlander, S.K.: Identification of a 24-gene prognostic signature that improves the European LeukemiaNet risk classification of acute myeloid leukemia: An international collaborative study. *J. Clin. Oncol.* 31, 1172-1181 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Lichtenegger, F.S.\*, Schnorfeil, F.M., Hiddemann, W., Subklewe, M.: Current strategies in immunotherapy for acute myeloid leukemia. *Immunotherapy* **5**, 63-78 (2013)

Lieb, W.\*, Jansen, H.\*, Loley, C.\*, Pencina, M.J.\*, Nelson, C.P.\*, Newton-Cheh, C.\*, Kathiresan, S.\*, Reilly, M.P.\*, Assimes, T.L.\*, Boerwinkle, E.\*, Hall, A.S.\*, Hengstenberg, C.\*, Laaksonen, R.\*, McPherson, R.\*, Thorsteinsdottir, U.\*, Ziegler, A.\*, Peters, A., Thompson, J.R.\*, König, I.R.\*, Erdmann, J.\*, Samani, N.J.\*, Vasan, R.S.\*, Schunkert, H.\*: Genetic predisposition to higher blood pressure increases coronary artery disease risk. *Hypertension* **61**, 995-1001 (2013)

Linares, E.M., Formiga, A.\*, Kubota, L.T.\*, Galembeck, F.\*, Thalhammer, S.: One-step synthesis of polymer core-shell particles with a carboxylated ruthenium complex: A potential tool for biomedical applications. *J. Mater. Chem. B* **1**, 2236-2244 (2013)

Linka, Y.\*, Ginzel, S.\*, Krüger, M.\*, Novosel, A.\*, Gombert, M.\*, Kremmer, E., Harbott, J.\*, Thiele, R.\*, Borkhardt, A.\*, Landgraf, P.\*: The impact of TEL-AML1 (ETV6-RUNX1) expression in precursor B cells and implications for leukaemia using three different genome-wide screening methods. *Blood Cancer J.* **3**:e151 (2013)

Liu, C., Flexeder, C., Fuertes, E., Cyrys, J., Bauer, C.-P.\*, Koletzko, S.\*, Hoffmann, B.\*, von Berg, A.\*, Heinrich, J.: Effects of air pollution on exhaled nitric oxide in children: Results from the GINIplus and LISAplus studies. *Int. J. Hyg. Environ. Health.*, DOI:10.1016/j.ijheh.2013.09.006 (2013)

Liu, C., Fuertes, E., Tiesler, C.M.T., Birk, M., Babisch, W.\*, Bauer, C.-P.\*, Koletzko, S.\*, Heinrich, J.: The association between road traffic noise exposure and blood pressure among children in Germany: The GINIplus and LISAplus studies. *Noise Health* **15**, 165-172 (2013)

Liu, C., Fuertes, E., Tiesler, C.M., Birk, M., Babisch, W., Bauer, C.-P.\*, Koletzko, S.\*, von Berg, A.\*, Hoffmann, B.\*, Heinrich, J., GINIplus Study Group (Heinrich, J., Wichmann, H.-E.), LISAplus Study Group (Heinrich, J., Wichmann, H.-E.): The associations between traffic-related air pollution and noise with blood pressure in children: Results from the GINIplus and LISAplus studies. *Int. J. Hyg. Environ. Health.*, DOI:10.1016/j.ijheh.2013.09.008 (2013)

Liu, L., Breitner, S., Schneider, A.E., Cyrys, J., Brüske, I., Franck, U.\*, Schlink, U.\*, Marian Leitte, A.\*, Herbarth, O.\*, Wiedensohler, A.\*, Wehner, B.\*, Pan, X.\*, Wichmann, H.-E., Peters, A.: Size-fractioned particulate air pollution and cardiovascular emergency room visits in Beijing, China. *Environ. Res.* **121**, 52-63 (2013)

Liu, Y., Dalal, K.\*, Stollenwerk, B.: The association between health system development and the burden of cardiovascular disease: An analysis of WHO country profiles. *PLoS ONE* **8**:e61718 (2013)

Löndahl, J.\*, Möller, W., Pagels, J.H.\*, Kreyling, W.G., Swietlicki, E.\*, Schmid, O.: Measurement techniques for respiratory tract deposition of airborne nanoparticles: A critical review. *J. Aerosol Med. Pulm. Drug Deliv.*, DOI:10.1089/jamp.2013.1044 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Luchner, A.\*, Behrens, G.\*, Stritzke, J.\*, Markus, M.\*, Stark, K.\*, Peters, A., Meisinger, C., Leitzmann, M.\*, Hense, H.-W.\*, Schunkert, H.\*, Heid, I.M.\*: Long-term pattern of brain natriuretic peptide and N-terminal pro brain natriuretic peptide and its determinants in the general population: Contribution of age, gender, and cardiac and extra-cardiac factors. *Eur. J. Heart Fail.* **15**, 859-867 (2013)

Luczynska, A.\*, Kaaks, R.\*, Rohrmann, S.\*, Becker, S.\*, Linseisen, J., Buijsse, B.\*, Overvad, K.\*, Trichopoulou, A.\*, Valanou, E.\*, Barmpitsioti, A.\*, Masala, G.\*, Agnoli, C.\*, Tumino, R.\*, Panico, S.\*, Bueno-de-Mesquita, H.B.\*, van Duijnhoven, F.J.B.\*, Peeters, P.H.M.\*, Vernieulen, R.\*, Weiderpass, E.\*, Brustad, M.\*, Skeie, G.\*, González, C.A.\*, Jakszyn, P.\*, Quirós, J.R.\*, Sánchez, M.J.\*, Huerta, J.M.\*, Ardanaz, E.\*, Melin, B.\*, Johansson, A.S.\*, Almquist, M.\*, Maim, J.\*, Khaw, K.T.\*, Wareham, N.\*, Travis, R.C.\*, Fedirko, V.\*, Romieu, I.\*, Jenab, M.\*, Gallo, V.\*, Riboli, E.\*, Vineis, P.\*, Nieters, A.\*: Plasma 25-hydroxyvitamin D concentration and lymphoma risk: Results of the European Prospective Investigation into Cancer and Nutrition. *Am. J. Clin. Nutr.* **98**, 827-838 (2013)

Ludwig, T.\*, Worsch, S.\*, Heikenwälder, M., Daniel, H.\*, Hauner, H.\*, Bader, B.L.\*: Metabolic and immunomodulatory effects of n-3 fatty acids are different in mesenteric and epididymal adipose tissue of diet-induced obese mice. *Am. J. Physiol. Endocrinol. Metab.* **304**, E1140-E1156 (2013)

Ludyga, N., Anastasov, N., Rosemann, M., Seiler, J., Lohmann, N., Braselmann, H., Mengele, K.\*, Schmitt, M.\*, Höfler, H., Aubele, M.: Effects of simultaneous knockdown of HER2 and PTK6 on malignancy and tumor progression in human breast cancer cells. *Mol. Cancer Res.* **11**, 381-392 (2013)

Ludyga, N., Englert, S., Pflieger, K., Rauser, S., Braselmann, H., Walch, A.K., Auer, G.\*, Höfler, H., Aubele, M.: The impact of Cysteine-Rich Intestinal Protein 1 (CRIP1) in human breast cancer. *Mol. Cancer* **12**:28 (2013)

Lukaschek, K., Baumert, J., Kruse, J.\*, Emeny, R.T., Lacruz, M.E., Huth, C., Thorand, B., Holle, R., Rathmann, W.\*, Meisinger, C., Ladwig, K.-H.: Relationship between posttraumatic stress disorder and type 2 diabetes in a population-based cross-sectional study with 2970 participants. *J. Psychosomat. Res.* **74**, 340-345 (2013)

Ly-Verdú, S., Schäfer, A., Kahle, M., Gröger, T.M., Neschen, S., Arteaga-Salas, J.M., Ueffing, M., Hrabé de Angelis, M., Zimmermann, R.: The impact of blood on liver metabolite profiling - a combined metabolomic and proteomic approach. *Biomed. Chromatogr.* **28**, 231–240 (2014) [published online 2013]

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Ma, R.C.\*, Hu, C.\*, Tam, C.H.\*, Zhang, R.\*, Kwan, P.\*, Leung, T.F.\*, Thomas, G.N.\*, Go, M.J.\*, Hara, K.\*, Sim, X.\*, Ho, J.S.\*, Wang, C.\*, Li, H.\*, Lu, L.\*, Wang, Y.\*, Li, J.W.\*, Lam, V.K.\*, Wang, J.\*, Yu, W.\*, Kim, Y.J.\*, Ng, D.P.\*, Fujita, H.\*, Panoutsopoulou, K.\*, Day-Williams, A.G.\*, Lee, H.M.\*, Ng, A.C.\*, Fang, Y.J.\*, Kong, A.P.\*, Jiang, F.\*, Ma, X.\*, Hou, X.\*, Tang, S.\*, Lu, J.\*, Yamauchi, T.\*, Tsui, S.K.\*, Woo, J.\*, Leung, P.C.\*, Zhang, X.\*, Tang, N.L.\*, Sy, H.Y.\*, Liu, J.\*, Wong, T.Y.\*, Lee, J.Y.\*, Maeda, S.\*, Xu, G.\*, Cherny, S.S.\*, Chan, T.F.\*, Ng, M.C.\*, Xiang, K.\*, Morris, A.P.\*, DIAGRAM Consortium (Huth, C., Grallert, H.H., Klopp, N.B., Illig, T., Petersen, A.-K., Meitinger, T., Thorand, B., Gieger, C., Wichmann, H.-E.), Keildson, S.\*, MuTHER Consortium, Hu, R.\*, Ji, L.\*, Lin, X.\*, Cho, Y.S.\*, Kadowaki, T.\*, Tai, E.S.\*, Zeggini, E.\*, McCarthy, M.I.\*, Hon, K.L.\*, Baum, L.\*, Tomlinson, B.\*, So, W.Y.\*, Bao, Y.\*, Chan, J.C.\*, Jia, W.\*: Genome-wide association study in a Chinese population identifies a susceptibility locus for type 2 diabetes at 7q32 near *PAX4. Diabetologia* **56**, 1291-1305 (2013)

MacIntyre, E.A., Carlsten, C.\*, Macnutt, M.\*, Fuertes, E., Melén, E.\*, Tiesler, C.M.T., Gehring, U.\*, Krämer, U.\*, Klümper, C.\*, Kerkhof, M.\*, Chan-Yeung, M.\*, Kozyrskyj, A.L.\*, Berdel, D.\*, Bauer, C.P.\*, Herbarth, O.\*, Bauer, M., Schaaf, B.\*, Koletzko, S.\*, Pershagen, G.\*, Brunekreef, B.\*, Heinrich, J., Brauer, M.\*: Traffic, asthma and genetics: Combining international birth cohort data to examine genetics as a mediator of traffic-related air pollution's impact on childhood asthma. *Eur. J. Epidemiol.* **28**, 597-606 (2013)

Mackenzie, I.R.\*, Arzberger, T.\*, Kremmer, E., Troost, D.\*, Lorenzl, S.\*, Mori, K.\*, Weng, S.M.\*, Haass, C.\*, Kretzschmar, H.A.\*, Edbauer, D.\*, Neumann, M.\*: Dipeptide repeat protein pathology in *C9ORF72* mutation cases: Clinico-pathological correlations. *Acta Neuropathol.* **126**, 859-879 (2013)

Madrigano, J.\*, Mittleman, M.A.\*, Baccarelli, A.\*, Goldberg, R.\*, Melly, S.\*, von Klot, S., Schwartz, J.\*: Temperature, myocardial infarction, and mortality: Effect modification by individual- and arealevel characteristics. *Epidemiology* **24**, 439-446 (2013)

Maier, S.K., Hahne, H.\*, Moghaddas Gholami, A.\*, Balluff, B., Meding, S., Schoene, C., Walch, A.K., Kuster, B.\*: Comprehensive identification of proteins from MALDI imaging. *Mol. Cell. Proteomics* **12**, 2901-2910 (2013)

Maier, W., Holle, R., Hunger, M., Peters, A., Meisinger, C., Greiser, K.H.\*, Kluttig, A.\*, Völzke, H.\*, Schipf, S.\*, Moebus, S.\*, Bokhof, B.\*, Berger, K.\*, Mueller, G.\*, Rathmann, W.\*, Tamayo, T.\*, Mielck, A.: The impact of regional deprivation and individual socio-economic status on the prevalence of type 2 diabetes in Germany. A pooled analysis of five population-based studies. *Diabetic Med.* **30**, 78-86 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Mäkelä, K.M.\*, Seppälä, I.\*, Hernesniemi, J.A.\*, Lyytikäinen, L.P.\*, Oksala, N.\*, Kleber, M.E.\*, Scharnagl, H.\*, Grammer, T.B.\*, Baumert, J., Thorand, B., Jula, A.\*, Hutri-Kähönen, N.\*, Juonala, M.\*, Laitinen, T.\*, Laaksonen, R.\*, Karhunen, P.J.\*, Nikus, K.C.\*, Nieminen, T.\*, Laurikka, J.\*, Kuukasjärvi, P.\*, Tarkka, M.\*, Viik, J.\*, Klopp, N., Illig, T., Kettunen, J.\*, Ahotupa, M.\*, Viikari, J.S.A.\*, Kähönen, M.\*, Raitakari, O.T.\*, Karakas, M.\*, Koenig, W.\*, Boehm, B.O.\*, Winkelmann, B.R.\*, Marz, W.\*, Lehtimäki, T.\*: Genome-wide association study pinpoints a new functional apolipoprotein B variant influencing oxidized low-density lipoprotein levels but not cardiovascular events: AtheroRemo Consortium. *Circ. Cardiovasc. Genet.* **6**, 73-81 (2013)

Maliniemi, P.\*, Vincendeau, M., Mayer, J.\*, Frank, O.\*, Hahtola, S.\*, Karenko, L.\*, Carlsson, E.\*, Mallet, F.\*, Seifarth, W.\*, Leib-Mösch, C., Ranki, A.\*: Expression of human endogenous retrovirus-W including syncytin-1 in cutaneous T-cell lymphoma. *PLoS ONE* **8**:e76281 (2013)

Manic, G.\*, Maurin-Marlin, A.\*, Laurent, F.\*, Vitale, I.\*, Thierry, S.\*, Delelis, O.\*, Dessen, P.\*, Vincendeau, M., Leib-Mösch, C., Hazan, U.\*, Mouscadet, J.F.\*, Bury-Moné, S.\*: Impact of the Ku complex on HIV-1 expression and latency. *PLoS ONE* **8**:e69691 (2013)

Marcon, A.\*, Cerveri, I.\*, Wjst, M., Anto, J.\*, Heinrich, J., Janson, C.\*, Jarvis, D.\*, Leynaert, B.\*, Probst-Hensch, N.\*, Svanes, C.\*, Torén, K.\*, Burney, P.\*, de Marco, R.\*: Can an airway challenge test predict respiratory diseases? A population-based international study. *J. Allergy Clin. Immunol.* **133**, 104–110 (2014) [published online 2013]

Mares, V., Pioch, C., Rühm, W., Iwase, H.\*, Iwamoto, Y.\*, Hagiwara, M.\*, Satoh, D.\*, Yashima, H.\*, Itoga, T.\*, Sato, T.\*, Nakane, Y.\*, Nakashima, H.\*, Sakamoto, Y.\*, Matsumoto, T.\*, Masuda, A.\*, Harano, H.\*, Nishiyama, J.\*, Theis, C.\*, Feldbaumer, E.\*, Jaegerhofer, L.\*, Tamii, A.\*, Hatanaka, K.\*, Nakamura, T.\*: Neutron dosimetry in quasi-monoenergetic fields of 244 and 387 MeV. *IEEE Trans. Nucl. Sci.* **60**, 299-304 (2013)

Markevych, I.\*, Wolf, K., Hampel, R., Breitner, S., Schneider, A., von Klot, S., Cyrys, J., Heinrich, J., Döring, A., Beelen, R.\*, Koenig, W.\*, Peters, A.: Air pollution and liver enzymes. *Epidemiology* **24**, 934-935 (2013)

Markus, M.R.\*, Stritzke, J.\*, Baumeister, S.E.\*, Siewert, U.\*, Baulmann, J.\*, Hannemann, A.\*, Schipf, S.\*, Meisinger, C., Dörr, M.\*, Felix, S.B.\*, Keil, U.\*, Völzke, H.\*, Hense, H.W.\*, Schunkert, H.\*: Effects of smoking on arterial distensibility, central aortic pressures and left ventricular mass. *Int. J. Cardiol.* **168**, 2593-2601 (2013)

Marzi, C., Huth, C., Herder, C.\*, Baumert, J., Thorand, B., Rathmann, W.\*, Meisinger, C., Wichmann, H.-E., Roden, M.\*, Peters, A., Grallert, H.H., Koenig, W.\*, Illig, T.: Acute-phase serum amyloid A protein and its implication in the development of type 2 diabetes in the KORA S4/F4 study. *Diabetes Care* **36**, 1321-1326 (2013)

Masson, O.\*, Ringer, W.\*, Malá, H.\*, Rulík, P.\*, Dlugosz-Lisiecka, M.\*, Eleftheriadis, K.\*, Meisenberg, O., de Vismes-Ott, A.\*, Gensdarmes, F.\*: Size distributions of airborne radionuclides from the Fukushima nuclear accident at several places in Europe. *Environ. Sci. Technol.* **47**, 10995-11003 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Mayer, M.C.\*, Breithaupt, C.\*, Reindl, M.\*, Schanda, K.\*, Rostasy, K.\*, Berger, T.\*, Dale, R.C.\*, Brilot, F.\*, Olsson, T.\*, Jenne, D., Pröbstel, A.K.\*, Dornmair, K.\*, Wekerle, H.\*, Hohlfeld, R.\*, Banwell, B.\*, Bar-Or, A.\*, Meinl, E.\*: Distinction and temporal stability of conformational epitopes on myelin oligodendrocyte glycoprotein recognized by patients with different inflammatory central nervous system diseases. *J. Immunol.* **191**, 3594-3604 (2013)

Mazoochian, F.\*, Schmidutz, F.\*, Kiefl, J.\*, Fottner, A.\*, Michalke, B., Schierl, R.\*, Thomas, P.\*, Jansson, V.\*: Levels of Cr, Co, Ni and Mo in erythrocytes, serum and urine after hip resurfacing arthroplasty. *Acta Chir. Belg.* **113**, 123-128 (2013)

McClellan, M.J.\*, Wood, C.D.\*, Ojeniyi, O.\*, Cooper, T.J.\*, Kanhere, A.\*, Arvey, A.\*, Webb, H.M.\*, Palermo, R.D.\*, Harth-Hertle, M.L., Kempkes, B., Jenner, R.G.\*, West, M.J.\*: Modulation of enhancer looping and differential gene targeting by Epstein-Barr virus transcription factors directs cellular reprogramming. *PLoS Pathog.* **9**:e1003636 (2013)

McDonnell, L.A.\*, Walch, A.K., Stoeckli, M.\*, Corthals, G.L.\*: MSiMass list: A public database of identifications for protein MALDI MSI. *J. Proteome Res.* **13**, 1138–1142 (2014) [published online 2013]

Mechelli, R.\*, Umeton, R.\*, Policano, C.\*, Annibali, V.\*, Coarelli, G.\*, Ricigliano, V.A.\*, Vittori, D.\*, Fornasiero, A.\*, Buscarinu, M.C.\*, International Multiple Sclerosis Genetics Consortium, Wellcome Trust Case Control Consortium 2 (WTCCC2) (Klopp, N.B., Rückert, I.-M., Wichmann, H.-E., Winkelmann, J.), Romano, S.\*, Salvetti, M.\*, Ristori, G.\*: A "candidate-interactome" aggregate analysis of genome-wide association data in multiple sclerosis. *PLoS ONE* **8**:e63300 (2013)

Meinel, F.G.\*, Schwab, F.\*, Schleede, S.\*, Bech, M.\*, Herzen, J.\*, Achterhold, K.\*, Auweter, S.\*, Bamberg, F.\*, Yildirim, A.Ö., Bohla, A., Eickelberg, O., Loewen, R.\*, Gifford, M.\*, Ruth, R.\*, Reiser, M.F.\*, Pfeiffer, F.\*, Nikolaou, K.\*: Diagnosing and mapping pulmonary emphysema on X-ray projection images: Incremental value of grating-based X-ray dark-field imaging. *PLoS ONE* **8**:e59526 (2013)

Meinel, F.G.\*, Schwab, F.\*, Yaroshenko, A.\*, Velroyen, A.\*, Bech, M.\*, Hellbach, K.\*, Fuchs, J.\*, Stiewe, T.\*, Yildirim, A.Ö., Bamberg, F.\*, Reiser, M.F.\*, Pfeiffer, F.\*, Nikolaou, K.\*: Lung tumors on multimodal radiographs derived from grating-based X-ray imaging - a feasibility study. *Phys. Med.*, DOI:10.1016/j.ejmp.2013.11.001 (2013)

Meisinger, C., Stollenwerk, B., Kirchberger, I., Seidl, H., Wende, R.\*, Kuch, B.\*, Holle, R.: Effects of a nurse-based case management compared to usual care among aged patients with myocardial infarction: Results from the randomized controlled KORINNA study. *BMC Geriatr.* **13**:115 (2013)

Meisinger, C., Stöckl, D., Rückert, I.-M., Döring, A., Thorand, B., Heier, M., Huth, C., Belcredi, P., Kowall, B.\*, Rathmann, W.\*: Serum potassium is associated with prediabetes and newly diagnosed diabetes in hypertensive adults from the general population: The KORA F4-study. *Diabetologia* **56**, 484-491 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Melén, E.\*, Granell, R.\*, Kogevinas, M.\*, Strachan, D.\*, Gonzalez, J.R.\*, Wjst, M., Jarvis, D.\*, Ege, M.\*, Braun-Fahrländer, C.\*, Genuneit, J.\*, Horak, E.\*, Bouzigon, E.\*, Demenais, F.\*, Kauffmann, F.\*, Siroux, V.\*, Michel, S.\*, von Berg, A.\*, Heinzmann, A.\*, Kabesch, M.\*, Probst-Hensch, N.M.\*, Curjuric, I.\*, Imboden, M.\*, Rochat, T.\*, Henderson, J.\*, Sterne, J.A.C.\*, McArdle, W.L.\*, Hui, J.\*, James, A.L.\*, Musk, A.W.\*, Palmer, L.J.\*, Becker, A.\*, Kozyrskyj, A.L.\*, Chan-Young, M.\*, Park, J.E.\*, Leung, A.\*, Daley, D.\*, Freidin, M.B.\*, Deev, I.A.\*, Ogorodova, L.M.\*, Puzyrev, V.P.\*, Celedón, J.C.\*, Brehm, J.M.\*, Cloutier, M.M.\*, Canino, G.\*, Acosta-Perez, E.\*, Soto-Quiros, M.\*, Avila, L.\*, Bergström, A.\*, Magnusson, J.\*, Söderhäll, C.\*, Kull, I.\*, Scholtens, S.\*, Boezen, H.M.\*, Koppelman, G.H.\*, Wijga, A.H.\*, Marenholz, I.\*, Esparza-Gordillo, J.\*, Lau, S.\*, Lee, Y.A.\*, Standl, M., Tiesler, C.M.T., Flexeder, C., Heinrich, J., Myers, R.A.\*, Ober, C.\*, Nicolae, D.L.\*, Farrall, M.\*, Kumar, A.\*, Moffatt, M.F.\*, Cookson, W.O.C.M.\*, Lasky-Su, J.\*: Genome-wide association study of body mass index in 23000 individuals with and without asthma. *Clin. Exp. Allergy* 43, 463-474 (2013)

Meyer-Bäumer, A.\*, Eickholz, P.\*, Reitmeir, P., Staehle, H.J.\*, Frese, C.\*, Wohlrab, T.\*, Pretzl, B.\*: Caries experience after periodontal treatment in aggressive and chronic periodontitis: Results of a 10-year follow-up. *Acta Odontol. Scand.* **71**, 1129-1135 (2013)

Michalke, B., Lucio, M., Berthele, A.\*, Kanawati, B.: Manganese speciation in paired serum and CSF samples using SEC-DRC-ICP-MS and CE-ICP-DRC-MS. *Anal. Bioanal. Chem.* **405**, 2301-2309 (2013)

Michalke, B., Fernsebner, K.: New insights into manganese toxicity and speciation. *J. Trace Elem. Med. Biol.*, DOI:10.1016/j.jtemb.2013.08.005 (2013)

Min, J.L.\*, Nicholson, G.\*, Halgrimsdottir, I.\*, Almstrup, K.\*, Petri, A.\*, Barrett, A.\*, Travers, M.\*, Rayner, N.W.\*, Mägi, R.\*, Pettersson, F.H.\*, Broxholme, J.\*, Neville, M.J.\*, Wills, Q.F.\*, Cheeseman, J.\*, GIANT Consortium (Heid, I.M., Thiering, E., Gieger, C., Grallert, H.H., Wichmann, H.-E., Illig, T., Heinrich, J., Peters, A.), Allen, M.\*, Holmes, C.C.\*, Spector, T.D.\*, Fleckner, J.\*, McCarthy, M.I.\*, Karpe, F.\*, Lindgren, C.M.\*, Zondervan, K.T.\*: Coexpression network analysis in abdominal and gluteal adipose tissue reveals regulatory genetic loci for metabolic syndrome and related phenotypes. *PLoS Genet.* **8**:e1002505 (2012)

Mittermeyer, G.\*, Malinowsky, K.\*, Beese, C.\*, Höfler, H., Schmalfeldt, B.\*, Becker, K.F.\*, Avril, S.\*: Variation in cell signaling protein expression may introduce sampling bias in primary epithelial ovarian cancer. *PLoS ONE* **8**:e77825 (2013)

Möller, W., Gibson, N.\*, Geiser, M.\*, Pokrehl, S.\*, Wenk, A., Takenaka, S., Schmid, O., Bulgheroni, A.\*, Simonelli, F.\*, Kozempel, J.\*, Holzwarth, U.\*, Wigge, C.\*, Eigeldinger-Berthou, S.\*, Mädler, L.\*, Kreyling, W.G.: Gold nanoparticle aerosols for rodent inhalation and translocation studies. *J. Nanopart. Res.* **15**:1574 (2013)

Möller, W., Schuschnig, U.\*, Celik, G., Münzing, W.\*, Bartenstein, P.\*, Häussinger, K.\*, Kreyling, W.G., Knoch, M.\*, Canis, M.\*, Becker, S.\*: Topical drug delivery in chronic rhinosinusitis patients before and after sinus surgery using pulsating aerosols. *PLoS ONE* **8**:e74991 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Molnarfi, N.\*, Schulze-Topphoff, U.\*, Weber, M.S.\*, Patarroyo, J.C.\*, Prod'homme, T.\*, Varrin-Doyer, M.\*, Shetty, A.\*, Linington, C.\*, Slavin, A.J.\*, Hidalgo, J.\*, Jenne, D.E., Wekerle, H.\*, Sobel, R.A.\*, Bernard, C.C.\*, Shlomchik, M.J.\*, Zamvil, S.S.\*: MHC class II-dependent B cell APC function is required for induction of CNS autoimmunity independent of myelin-specific antibodies. *J. Exp. Med.* **210**, 2921-2937 (2013)

Moltó-Puigmartí, C.\*, Jansen, E.\*, Heinrich, J., Standl, M., Mensink, R.P.\*, Plat, J.\*, Penders, J.\*, Mommers, M.\*, Koppelman, G.H.\*, Postma, D.S.\*, Thijs, C.\*: Genetic variation in *FADS* genes and plasma cholesterol levels in 2-year-old infants: KOALA Birth Cohort study. *PLoS ONE* **8**:e61671 (2013)

Morgan, R.A.\*, Chinnasamy, N.\*, Abate-Daga, D.\*, Gros, A.\*, Robbins, P.F.\*, Zheng, Z.L.\*, Dudley, M.E.\*, Feldman, S.A.\*, Yang, J.C.\*, Sherry, R.M.\*, Phan, G.Q.\*, Hughes, M.S.\*, Kammula, U.S.\*, Miller, A.D.\*, Hessman, C.J.\*, Stewart, A.A.\*, Restifo, N.P.\*, Quezado, M.M.\*, Alimchandani, M.\*, Rosenberg, A.Z.\*, Nath, A.\*, Wang, T.G.\*, Bielekova, B.\*, Wuest, S.C.\*, Akula, N.\*, McMahon, F.J.\*, Wilde, S., Mosetter, B., Schendel, D.J., Laurencot, C.M.\*, Rosenberg, S.A.\*: Cancer regression and neurological toxicity following anti-MAGE-A3 TCR gene therapy. *J. Immunother.* **36**, 133-151 (2013)

Mori, K.\*, Arzberger, T.\*, Grässer, F.A.\*, Gijselinck, I.\*, May, S.\*, Rentzsch, K.\*, Weng, S.M.\*, Schludi, M.H.\*, van der Zee, J.\*, Cruts, M.\*, van Broeckhoven, C.\*, Kremmer, E., Kretzschmar, H.A.\*, Haass, C.\*, Edbauer, D.\*: Bidirectional transcripts of the expanded *C9orf72* hexanucleotide repeat are translated into aggregating dipeptide repeat proteins. *Acta Neuropathol.* **126**, 881-893 (2013)

Mori, K.\*, Weng, S.M.\*, Arzberger, T.\*, May, S.\*, Rentzsch, K.\*, Kremmer, E., Schmid, B.\*, Kretzschmar, H.A.\*, Cruts, M.\*, van Broeckhoven, C.\*, Haass, C.\*, Edbauer, D.\*: The *C9orf72* GGGGCC repeat is translated into aggregating dipeptide-repeat proteins in FTLD/ALS. *Science* **339**, 1335-1338 (2013)

Muendlein, A.\*, Gasser, K.\*, Kinz, E.\*, Stark, N.\*, Leiherer, A.\*, Rein, P.\*, Saely, C.H.\*, Grallert, H.H., Peters, A., Drexel, H.\*, Lang, A.H.\*: Evaluation of the prevalence and prospective clinical impact of the *JAK2 V617F* mutation in coronary patients. *Am. J. Hematol.* **89**, 295–301 (2014) [published online 2013]

Müller, B., Hoeschen, C., Grüner, F.\*, Arkadiev, V.A.\*, Johnson, T.R.C.\*: Molecular imaging based on X-ray fluorescent high-Z tracers. *Phys. Med. Biol.* **58**, 8063-8076 (2013)

Müller, G.\*, Hartwig, S.\*, Greiser, K.H.\*, Moebus, S.\*, Pundt, N.\*, Schipf, S.\*, Völzke, H.\*, Maier, W., Meisinger, C., Tamayo, T.\*, Rathmann, W.\*, Berger, K.\*, DIAB-CORE Consortium: Gender differences in the association of individual social class and neighbourhood unemployment rate with prevalent type 2 diabetes mellitus: A cross-sectional study from the DIAB-CORE Consortium. *BMJ Open* **3**:e002601 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Müller, G.\*, Kluttig, A.\*, Greiser, K.H.\*, Moebus, S.\*, Slomiany, U.\*, Schipf, S.\*, Völzke, H.\*, Maier, W., Meisinger, C., Tamayo, T.\*, Rathmann, W.\*, Berger, K.\*: Regional and neighborhood disparities in the odds of type 2 diabetes: Results from 5 population-based studies in Germany (DIAB-CORE Consortium). *Am. J. Epidemiol.* **178**, 221-230 (2013)

Müller, M.\*, Strobl, R.\*, Jahn, K.\*, Linkohr, B., Peters, A., Grill, E.\*: Burden of disability attributable to vertigo and dizziness in the aged: Results from the KORA-Age study. *Eur. J. Public Health*, DOI:10.1093/eurpub/ckt171 (2013)

Müller, S.\*, Eickholz, P.\*, Reitmeir, P., Eger, T.\*: Long-term tooth loss in periodontally compromised but treated patients according to the type of prosthodontic treatment. A retrospective study. *J. Oral Rehabil.* **40**, 358-367 (2013)

Müller-Rischart, A.K.\*, Pilsl, A.\*, Beaudette, P.\*, Patra, M.\*, Hadian, K., Funke, M.\*, Peis, R., Deinlein, A.\*, Schweimer, C.\*, Kuhn, P.-H.\*, Lichtenthaler, S.F.\*, Motori, E.\*, Hrelia, S.\*, Wurst, W., Trümbach, D., Langer, T.\*, Krappmann, D., Dittmar, G.\*, Tatzelt, J.\*, Winklhofer, K.F.\*: The E3 ligase Parkin maintains mitochondrial integrity by increasing linear ubiquitination of NEMO. *Mol. Cell* **49**, 908-921 (2013)

Münchmeier, N.\*, Boecker, S.\*, Bankel, L., Hinz, L.\*, Rieth, N.\*, Lapa, C.\*, Mendler, A.N., Nößner, E., Mocikat, R., Nelson, P.J.: A novel CXCL10-based GPI-anchored fusion protein as adjuvant in NK-based tumor therapy. *PLoS ONE* **8**:e72749 (2013)

Mynarek, M.\*, Schober, T.\*, Behrends, U., Maecker-Kolhoff, B.\*: Posttransplant lymphoproliferative disease after pediatric solid organ transplantation. *Clin. Dev. Immunol.* **2013**:814973 (2013)

Møller, R.S.\*, Weber, Y.G.\*, Klitten, L.L.\*, Trucks, H.\*, Muhle, H.\*, Kunz, W.S.\*, Mefford, H.C.\*, Franke, A.\*, Kautza, M.\*, Wolf, P.\*, Dennig, D.\*, Schreiber, S.\*, Rückert, I.-M., Wichmann, H.-E., Ernst, J.P.\*, Schurmann, C.\*, Grabe, H.J.\*, Tommerup, N.\*, Stephani, U.\*, Lerche, H.\*, Hjalgrim, H.\*, Helbig, I.\*, Sander, T.\*, EPICURE Consortium: Exon-disrupting deletions of *NRXN1* in idiopathic generalized epilepsy. *Epilepsia* **54**, 256-264 (2013)

Nauerth, M.\*, Weißbrich, B.\*, Knall, R.\*, Franz, T.\*, Dössinger, G.\*, Bet, J.\*, Paszkiewicz, P.J.\*, Pfeifer, L.\*, Bunse, M.\*, Uckert, W.\*, Holtappels, R.\*, Gillert-Marien, D.\*, Neuenhahn, M., Krackhardt, A.M., Reddehase, M.J.\*, Riddell, S.R.\*, Busch, D.H.: TCR-Ligand k<sub>off</sub> rate correlates with the protective capacity of antigen-specific CD8<sup>+</sup> T cells for adoptive transfer. *Sci. Transl. Med.* **5**:192ra87 (2013)

Neff, F., Flores-Dominguez, D.\*, Ryan, D.P.\*, Horsch, M., Schröder, S.\*, Adler, T., Afonso, L.C., Aguilar-Pimentel, J.A., Becker, L., Garrett, L., Hans, W., Hettich, M.M.\*, Holtmeier, R.\*, Hölter, S.M., Moreth, K., Prehn, C., Puk, O., Rácz, I.\*, Rathkolb, B., Rozman, J., Naton, B., Ordemann, R.\*, Adamski, J., Beckers, J., Bekeredjian, R.\*, Busch, D.H.\*, Ehninger, G.\*, Graw, J., Höfler, H., Klingenspor, M.\*, Klopstock, T.\*, Ollert, M.\*, Stypmann, J.\*, Wolf, E.\*, Wurst, W., Zimmer, A.\*, Fuchs, H., Gailus-Durner, V., Hrabé de Angelis, M., Ehniger, D.\*: Rapamycin extends murine lifespan but has limited effects on aging. *J. Clin. Invest.* **123**, 3272-3291 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Neubert, P., Walch, A.K.: Current frontiers in clinical research application of MALDI imaging mass spectrometry. *Expert Rev. Proteomics* **10**, 259-273 (2013)

Neumann, M.\*, Heesch, S.\*, Schlee, C.\*, Schwartz, S.\*, Gökbuget, N.\*, Hoelzer, D.\*, Konstandin, N.P., Ksienzyk, B., Vosberg, S., Graf, A.\*, Krebs, S.\*, Blum, H.\*, Raff, T.\*, Brüggemann, M.\*, Hofmann, W.-K.\*, Hecht, J.\*, Bohlander, S.K., Greif, P.A., Baldus, C.D.\*: Whole-exome sequencing in adult ETP-ALL reveals a high rate of *DNMT3A* mutations. *Blood* **121**, 4749-4752 (2013)

Norbäck, D.\*, Zock, J.P.\*, Plana, E.\*, Heinrich, J., Svanes, C.\*, Sunyer, J.\*, Künzli, N.\*, Villani, S.\*, Olivieri, M.\*, Soon, A.\*, Jarvis, D.\*: Mould and dampness in dwelling places, and onset of asthma: The population-based cohort ECRHS. *Occup. Environ. Med.* **70**, 325-331 (2013)

Nyberg, S.T.\*, Fransson, E.I.\*, Heikkilä, K.\*, Alfredsson, L.\*, Casini, A.\*, Clays, E.\*, de Bacquer, D.\*, Dragano, N.\*, Erbel, R.\*, Ferrie, J.E.\*, Hamer, M.\*, Jockel, K.H.\*, Kittel, F.\*, Knutsson, A.\*, Ladwig, K.-H., Lunau, T.\*, Marmot, M.G.\*, Nordin, M.\*, Rugulies, R.\*, Siegrist, J.\*, Steptoe, A.\*, Westerholm, P.J.\*, Westerlund, H.\*, Theorell, T.\*, Brunner, E.J.\*, Singh-Manoux, A.\*, Batty, G.D.\*, Kivimaki, M.\*: Job strain and cardiovascular disease risk factors: Meta-analysis of individual-participant data from 47,000 men and women. *PLoS ONE* 8:e67323 (2013)

O'Brien, B.\*, Zeng, H.\*, Polyzos, A.A.\*, Lemke, K.H.\*, Weier, J.F.\*, Wang, M.\*, Zitzelsberger, H.F., Weier, H.-U.G.\*: Bioinformatics tools allow targeted selection of chromosome enumeration probes and aneuploidy detection. *J. Histochem. Cytochem.* **61**, 134-147 (2013)

O'Connor, D.\*, Healy, D.A.\*, Buters, J.T.M., Sodeau, J.R.\*: Using the WIBS-4 (Waveband Integrated Bioaerosol Sensor) technique for the on-line detection of pollen grains. *Aerosol Sci. Technol.* **48**, 341-349 (2014) [published online 2013]

O'Donoghue, A.J.\*, Jin, Y.\*, Knudsen, G.M.\*, Perera, N.C., Jenne, D.E., Murphy, J.E.\*, Craik, C.S.\*, Hermiston, T.W.\*: Global substrate profiling of proteases in human neutrophil extracellular traps reveals consensus motif predominantly contributed by elastase. *PLoS ONE* **8**:e75141 (2013)

O'Leary, V.B., Ovsepian, S.V.\*, Bodeker, M.\*, Dolly, J.O.\*: Improved lentiviral transduction of ALS motoneurons in vivo via dual targeting. *Mol. Pharm.* **10**, 4195–4206 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

O'Seaghdha, C.M.\*, Wu, H.\*, Yang, Q.\*, Kapur, K.\*, Guessous, I.\*, Zuber, A.M.\*, Köttgen, A.\*, Stoudmann, C.\*, Teumer, A.\*, Kutalik, Z.\*, Mangino, M.\*, Dehghan, A.\*, Zhang, W.\*, Eiriksdottir, G.\*, Li, G.\*, Tanaka, T.\*, Portas, L.\*, Lopez, L.M.\*, Hayward, C.\*, Lohman, K.\*, Matsuda, K.\*, Padmanabhan, S.\*, Firsov, D.\*, Sorice, R.\*, Ulivi, S.\*, Brockhaus, A.C., Kleber, M.E.\*, Mahajan, A.\*, Ernst, F.D.\*, Gudnason, V.\*, Launer, L.J.\*, Mace, A.\*, Boerwinckle, E.\*, Arking, D.E.\*, Tanikawa, C.\*, Nakamura, Y.\*, Brown, M.J.\*, Gaspoz, J.M.\*, Theler, J.M.\*, Siscovick, D.S.\*, Psaty, B.M.\*, Bergmann, S.\*, Vollenweider, P.\*, Vitart, V.\*, Wright, A.F.\*, Zemunik, T.\*, Boban, M.\*, Kolcic, I.\*, Navarro, P.\*, Brown, E.M.\*, Estrada, K.\*, Ding, J.\*, Harris, T.B.\*, Bandinelli, S.\*, Hernandez, D.\*, Singleton, A.B.\*, Girotto, G.\*, Ruggiero, D.\*, d'Adamo, A.P.\*, Robino, A.\*, Meitinger, T., Meisinger, C., Davies, G.\*, Starr, J.M.\*, Chambers, J.C.\*, Boehm, B.O.\*, Winkelmann, B.R.\*, Huang, J.\*, Murgia, F.\*, Wild, S.H.\*, Campbell, H.\*, Morris, A.P.\*, Franco, O.H.\*, Hofman, A.\*, Uitterlinden, A.G.\*, Rivadeneira, F.\*, Völker, U.\*, Hannemann, A.\*, Biffar, R.\*, Hoffmann, W.\*, Shin, S.Y.\*, Lescuyer, P.\*, Henry, H.\*, Schurmann, C.\*, SUNLIGHT Consortium, GEFOS Consortium, Munroe, P.B.\*, Gasparini, P.\*, Pirastu, N.\*, Ciullo, M.\*, Gieger, C., Marz, W.\*, Lind, L.\*, Spector, T.D.\*, Smith, A.V.\*, Rudan, I.\*, Wilson, J.F.\*, Polasek, O.\*, Deary, I.J.\*, Pirastu, M.\*, Ferrucci, L.\*, Liu, Y.\*, Kestenbaum, B.\*, Kooner, J.S.\*, Witteman, J.C.\*, Nauck, M.\*, Kao, W.H.\*, Wallaschofski, H.\*, Bonny, O.\*, Fox, C.S.\*, Bochud, M.\*: Meta-analysis of genome-wide association studies identifies six new Loci for serum calcium concentrations. PLoS Genet. 9:e1003796 (2013)

Occhi, G.\*, Regazzo, D.\*, Trivellin, G.\*, Boaretto, F.\*, Ciato, D.\*, Bobisse, S.\*, Ferasin, S.\*, Cetani, F.\*, Pardi, E.\*, Korbonits, M.\*, Pellegata, N.S., Sidarovich, V.\*, Quattrone, A.\*, Opocher, G.\*, Mantero, F.\*, Scaroni, C.\*: A novel mutation in the upstream open reading frame of the *CDKN1B* gene causes a MEN4 phenotype. *PLoS Genet*. **9**:e1003350 (2013)

Oetjen, J.\*, Aichler, M., Trede, D.\*, Strehlow, J.\*, Berger, J.\*, Heldmann, S.\*, Becker, M.\*, Gottschalk, M.\*, Kobarg, J.H.\*, Wirtz, S.\*, Schiffler, S.\*, Thiele, H.\*, Walch, A.K., Maass, P.\*, Alexandrov, T.\*: MRI-compatible pipeline for three-dimensional MALDI imaging mass spectrometry using PAXgene fixation. *J. Proteomics* **90**, 52-60 (2013)

Ohlander, J.\*, Huber, S.M.\*, Schomaker, M.\*, Heumann, C.\*, Schierl, R.\*, Michalke, B., Jenni, O.G.\*, Caflisch, J.\*, Muñoz, D.M.\*, von Ehrenstein, O.S.\*, Radon, K.\*: Risk factors for mercury exposure of children in a rural mining town in Northern Chile. *PLoS ONE* **8**:e79756 (2013)

Okada, Y.\*, Kubo, M.\*, Ohmiya, H.\*, Takahashi, A.\*, Kumasaka, N.\*, Hosono, N.\*, Maeda, S.\*, Wen, W.\*, Dorajoo, R.\*, Go, M.J.\*, Zheng, W.\*, Kato, N.\*, Wu, J.Y.\*, Lu, Q.\*, GIANT Consortium (Heid, I.M., Thiering, E., Gieger, C., Grallert, H.H., Heinrich, J., Illig, T., Peters, A., Wichmann, H.-E.), Tsunoda, T.\*, Yamamoto, K.\*, Nakamura, Y.\*, Kamatani, N.\*, Tanaka, T.\*: Common variants at *CDKAL1* and *KLF9* are associated with body mass index in East Asian populations. *Nat. Genet.* **44**, 302-306 (2012)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Olsson, A.C.\*, Xu, Y.\*, Schüz, J.\*, Vlaanderen, J.\*, Kromhout, H.\*, Vermeulen, R.\*, Peters, S.\*, Stücker, I.\*, Guida, F.\*, Brüske, I., Wichmann, H.-E., Consonni, D.\*, Landi, M.T.\*, Caporaso, N.\*, Tse, L.A.\*, Yu, I.T.\*, Siemiatycki, J.\*, Richardson, L.\*, Mirabelli, D.\*, Richiardi, L.\*, Simonato, L.\*, Gustavsson, P.\*, Plato, N.\*, Jockel, K.H.\*, Ahrens, W.\*, Pohlabeln, H.\*, Tardón, A.\*, Zaridze, D.\*, Marcus, M.W.\*, 't Mannetje, A.\*, Pearce, N.\*, McLaughlin, J.\*, Demers, P.\*, Szeszenia-Dabrowska, N.\*, Lissowska, J.\*, Rudnai, P.\*, Fabianova, E.\*, Dumitru, R.S.\*, Bencko, V.\*, Foretova, L.\*, Janout, V.\*, Boffetta, P.\*, Fortes, C.\*, Bueno-de-Mesquita, B.\*, Kendzia, B.\*, Behrens, T.\*, Pesch, B.\*, Brüning, T.\*, Straif, K.\*: Lung cancer risk among hairdressers: A pooled analysis of case-control studies conducted between 1985 and 2010. *Am. J. Epidemiol.* 178, 1355-1365 (2013)

Opatz, S.\*, Polzer, H., Herold, T., Konstandin, N.P.\*, Ksienzyk, B.\*, Zellmeier, E.\*, Vosberg, S., Graf, A.\*, Krebs, S.\*, Blum, H.\*, Hopfner, K.P.\*, Kakadia, P.M.\*, Schneider, S.\*, Dufour, A.\*, Braess, J.\*, Sauerland, M.C.\*, Berdel, W.E.\*, Büchner, T.\*, Woermann, B.J.\*, Hiddemann, W., Spiekermann, K., Bohlander, S.K., Greif, P.A.: Exome sequencing identifies recurring *FLT3* N676K mutations in core-binding factor leukemia. *Blood* **122**, 1761-1769 (2013)

Orasche, J., Schnelle-Kreis, J., Schön, C.\*, Hartmann, H.\*, Ruppert, H.\*, Arteaga-Salas, J.M., Zimmermann, R.: Comparison of emissions from wood combustion. Part 2: Impact of combustion conditions on emission factors and characteristics of particle-bound organic species and Polycyclic Aromatic Hydrocarbon (PAH)-related toxicological potential. *Energy Fuels* **27**, 1482-1491 (2013)

Orban, E., Schwab, S., Thorand, B., Huth, C.: Association of iron indices and type 2 diabetes: A meta-analysis of observational studies. *Diabetes Metab. Res. Rev.*, DOI:10.1002/dmrr.2506 (2013)

Ortlieb, S., Schneider, G., Koletzko, S.\*, Berdel, D.\*, von Berg, A.\*, Bauer, C.-P.\*, Schaaf, B.\*, Herbarth, O.\*, Lehmann, I., Hoffmann, B.\*, Heinrich, J., Schulz, H.: Physical activity and its correlates in children: A cross-sectional study (the GINIplus & LISAplus studies). *BMC Public Health* **13**:349 (2013)

Padeken, J.\*, Mendiburo, M.J.\*, Chlamydas, S.\*, Schwarz, H.J.\*, Kremmer, E., Heun, P.\*: The nucleoplasmin homolog NLP mediates centromere clustering and anchoring to the nucleolus. *Mol. Cell* **50**, 236-249 (2013)

Pallua, J.D.\*, Schaefer, G.\*, Seifarth, C.\*, Becker, M.\*, Meding, S., Rauser, S., Walch, A.K., Handler, M.\*, Netzer, M.\*, Popovscaia, M.\*, Osl, M.\*, Baumgartner, C.\*, Lindner, H.\*, Kremser, L.\*, Sarg, B.\*, Bartsch, G.\*, Huck, C.W.\*, Bonn, G.K.\*, Klocker, H.\*: MALDI-MS tissue imaging identification of biliverdin reductase B overexpression in prostate cancer. *J. Proteomics* **91**, 500-514 (2013)

Pandey, R.C.\*, Michel, S.\*, Tesse, R.\*, Binia, A.\*, Schedel, M.\*, Liang, L.M.\*, Klopp, N., Franke, A.\*, von Berg, A.\*, Bufe, A.\*, Rietschel, E.\*, Heinzmann, A.\*, Laub, O.\*, Simma, B.\*, Frischer, T.\*, Genuneit, J.\*, Illig, T., Kabesch, M.\*: Genetic variation in the toll-like receptor signaling pathway is associated with childhood asthma. *J. Allergy Clin. Immunol.* **131**, 602-605 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Pandey, R.C.\*, Michel, S.\*, Schieck, M.\*, Binia, A.\*, Liang, L.M.\*, Klopp, N., Franke, A.\*, von Berg, A.\*, Bufe, A.\*, Rietschel, E.\*, Heinzmann, A.\*, Laub, O.\*, Simma, B.\*, Frischer, T.\*, Genuneit, J.\*, Illig, T., Kabesch, M.\*: Polymorphisms in extracellular signal-regulated kinase family influence genetic susceptibility to asthma. *J. Allergy Clin. Immunol.* **131**, 1245-1247 (2013)

Parsa, A.\*, Fuchsberger, C.\*, Köttgen, A.\*, O'Seaghdha, C.M.\*, Pattaro, C.\*, de Andrade, M.\*, Chasman, D.I.\*, Teumer, A.\*, Endlich, K.\*, Olden, M.\*, Chen, M.H.\*, Tin, A.\*, Kim, Y.J.\*, Taliun, D.\*, Li, M.\*, Feitosa, M.\*, Gorski, M.\*, Yang, Q.\*, Hundertmark, C.\*, Foster, M.C.\*, Glazer, N.\*, Isaacs, A.\*, Rao, M.\*, Smith, A.V.\*, O'Connell, J.R.\*, Struchalin, M.\*, Tanaka, T.\*, Li, G.\*, Hwang, S.J.\*, Atkinson, E.J.\*, Lohman, K.\*, Cornelis, M.C.\*, Johansson, A.\*, Tönjes, A.\*, Dehghan, A.\*, Couraki, V.\*, Holliday, E.G.\*, Sorice, R.\*, Kutalik, Z.\*, Lehtimäki, T.\*, Esko, T.\*, Deshmukh, H.\*, Ulivi, S.\*, Chu, A.Y.\*, Murgia, F.\*, Trompet, S.\*, Imboden, M.\*, Kollerits, B.\*, Pistis, G.\*, Harris, T.B.\*, Launer, L.J.\*, Aspelund, T.\*, Eiriksdottir, G.\*, Mitchell, B.D.\*, Boerwinkle, E.\*, Schmidt, H.\*, Hofer, E.\*, Hu, F.\*, Demirkan, A.\*, Oostra, B.A.\*, Turner, S.T.\*, Ding, J.\*, Andrews, J.S.\*, Freedman, B.I.\*, Giulianini, F.\*, Koenig, W.\*, Illig, T., Döring, A., Wichmann, H.-E., Zgaga, L.\*, Zemunik, T.\*, Boban, M.\*, Minelli, C.\*, Wheeler, H.E.\*, Iql, W.\*, Zaboli, G.\*, Wild, S.H.\*, Wright, A.F.\*, Campbell, H.\*, Ellinghaus, D.\*, Nöthlings, U.\*, Jacobs, G.\*, Biffar, R.\*, Ernst, F.\*, Homuth, G.\*, Kroemer, H.K.\*, Nauck, M.\*, Stracke, S.\*, Völker, U.\*, Völzke, H.\*, Kovacs, P.\*, Stumvoll, M.\*, Mägi, R.\*, Hofman, A.\*, Uitterlinden, A.G.\*, Rivadeneira, F.\*, Aulchenko, Y.S.\*, Polasek, O.\*, Hastie, N.\*, Vitart, V.\*, Helmer, C.\*, Wang, J.J.\*, Stengel, B.\*, Ruggiero, D.\*, Bergmann, S.\*, Kähönen, M.\*, Viikari, J.\*, Nikopensius, T.\*, Province, M.\*, Colhoun, H.\*, Doney, A.\*, Robino, A.\*, Krämer, B.K.\*, Portas, L.\*, Ford, I.\*, Buckley, B.M.\*, Adam, M.\*, Thun, G.A.\*, Paulweber, B.\*, Haun, M.\*, Sala, C.\*, Mitchell, P.\*, Ciullo, M.\*, Vollenweider, P.\*, Raitakari, O.\*, Metspalu, A.\*, Palmer, C.\*, Gasparini, P.\*, Pirastu, M.\*, Jukema, J.W.\*, Probst-Hensch, N.M.\*, Kronenberg, F.\*, Toniolo, D.\*, Gudnason, V.\*, Shuldiner, A.R.\*, Coresh, J.\*, Schmidt, R.\*, Ferrucci, L.\*, van Duijn, C.M.\*, Borecki, I.\*, Kardia, S.L.\*, Liu, Y.\*, Curhan, G.C.\*, Rudan, I.\*, Gyllensten, U.\*, Wilson, J.F.\*, Franke, A.\*, Pramstaller, P.P.\*, Rettig, R.\*, Prokopenko, I.\*, Witteman, J.\*, Hayward, C.\*, Ridker, P.M.\*, Bochud, M.\*, Heid, I.M., Siscovick, D.S.\*, Fox, C.S.\*, Kao, W.L.\*, Böger, C.A.\*: Common variants in mendelian kidney disease genes and their association with renal function. J. Am. Soc. Nephrol. 24, 2105-2117 (2013)

Paul, D.S.\*, Albers, C.A.\*, Rendon, A.\*, Voss, K.\*, Stephens, J.\*, HaemGen Consortium (Döring, A., Gieger, C., Illig, T., Meisinger, C., Ried, J.S., Wichmann, H.-E.), van der Harst, P.\*, Chambers, J.C.\*, Soranzo, N.\*, Ouwehand, W.H.\*, Deloukas, P.\*: Maps of open chromatin highlight cell typerestricted patterns of regulatory sequence variation at hematological trait loci. *Genome Res.* **23**, 1130-1141 (2013)

Paul, K.\*, Wang, M.L.\*, Mladenov, E.\*, Bencsik-Theilen, A.\*, Bednar, T.\*, Wu, W.Q.\*, Arakawa, H., Iliakis, G.\*: DNA ligases I and III cooperate in alternative non-homologous end-joining in vertebrates. *PLoS ONE* **8**:e59505 (2013)

Pei, Z., Flexeder, C., Fuertes, E., Thiering, E., Koletzko, B.\*, Cramer, C.\*, Berdel, D.\*, Lehmann, I.\*, Bauer, C.P.\*, Heinrich, J.: Early life risk factors of being overweight at 10 years of age: Results of the German birth cohorts GINIplus and LISAplus. *Eur. J. Clin. Nutr.* **67**, 855-862 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Pennino, D., Bhavsar, P.K.\*, Effner, R., Avitabile, S.\*, Venn, P.\*, Quaranta, M., Marzaioli, V., Cifuentes, L., Durham, S.R.\*, Cavani, A.\*, Eyerich, K.\*, Chung, K.F.\*, Schmidt-Weber, C.B., Eyerich, S.: IL-22 suppresses IFN-γ-mediated lung inflammation in asthmatic patients. *J. Allergy Clin. Immunol.* **131**, 562-570 (2013)

Perera, N.C., Wiesmüller, K.H.\*, Larsen, M.T.\*, Schacher, B.\*, Eickholz, P.\*, Borregaard, N.\*, Jenne, D.E.: NSP4 is stored in azurophil granules and released by activated neutrophils as active endoprotease with restricted specificity. *J. Immunol.* **191**, 2700-2707 (2013)

Perna, L., Mielck, A., Lacruz, M.E., Emeny, R.T., von Eisenhart Rothe, A., Meisinger, C., Ladwig, K.-H.: The association between resilience and diabetic neuropathy by socioeconomic position: Cross-sectional findings from the KORA-Age study. *J. Health Psychol.*, DOI:10.1177/1359105313510334 (2013)

Pesch, B.\*, Gawrych, K.\*, Rabstein, S.\*, Weiss, T.\*, Casjens, S.\*, Rihs, H.P.\*, Ding, H.\*, Angerer, J.\*, Illig, T., Klopp, N.B., Bueno-de-Mesquita, B.\*, Ros, M.M.\*, Kaaks, R.\*, Chang-Claude, J.\*, Roswall, N.\*, Tjønneland, A.\*, Overvad, K.\*, Clavel-Chapelon, F.\*, Boutron-Ruault, M.C.\*, Dossus, L.\*, Boeing, H.\*, Weikert, S.\*, Trichopoulos, D.\*, Palli, D.\*, Sieri, S.\*, Tumino, R.\*, Panico, S.\*, Quirós, J.R.\*, Gonzalez, C.\*, Sánchez, M.J.\*, Dorronsoro, M.\*, Navarro, C.\*, Barricarte, A.\*, Ljungberg, B.\*, Johansson, M.\*, Ulmert, D.\*, Ehrnström, R.\*, Khaw, K.T.\*, Wareham, N.\*, Key, T.J.\*, Ferrari, P.\*, Romieu, I.\*, Riboli, E.\*, Brüning, T.\*, Vineis, P.\*: N-acetyltransferase 2 phenotype, occupation, and bladder cancer risk: Results from the EPIC cohort. *Cancer Epidemiol. Biomarkers Prev.* 22, 2055-2065 (2013)

Pesic, M.\*, Bartholomäus, I.\*, Kyratsous, N.I.\*, Heissmeyer, V., Wekerle, H.\*, Kawakami, N.\*: 2-photon imaging of phagocyte-mediated T cell activation in the CNS. *J. Clin. Invest.* **123**, 1192-1201 (2013)

Peters, D.M.\*, Vadász, I.\*, Wujak, L.\*, Wygrecka, M.\*, Olschewski, A.\*, Becker, C.\*, Herold, S.\*, Papp, R.\*, Mayer, K.\*, Rummel, S.\*, Brandes, R.P.\*, Günther, A.\*, Waldegger, S.\*, Eickelberg, O., Seeger, W.\*, Morty, R.E.\*: TGF-β directs trafficking of the epithelial sodium channel ENaC which has implications for ion and fluid transport in acute lung injury. *Proc. Natl. Acad. Sci. U.S.A.* **111**, E374-E383 (2014) [published online 2013]

Pfitzner, R., Gorzelniak, L.\*, Heinrich, J., von Berg, A.\*, Klümper, C.\*, Bauer, C.P.\*, Koletzko, S.\*, Berdel, D.\*, Horsch, A.\*, Schulz, H., GINIplus Study Group (Wichmann, H.-E., Heinrich, J.): Physical activity in German adolescents measured by accelerometry and activity diary: Introducing a comprehensive approach for data management and preliminary results. *PLoS ONE* **8**:e65192 (2013)

Pinto, L.A.\*, Michel, S.\*, Klopp, N., Vogelberg, C.\*, von Berg, A.\*, Bufe, A.\*, Heinzmann, A.\*, Laub, O.\*, Simma, B.\*, Frischer, T.\*, Genuneit, J.\*, Gorski, M.\*, Illig, T., Kabesch, M.\*: Polymorphisms in the IRF-4 gene, asthma and recurrent bronchitis in children. *Clin. Exp. Allergy* **43**, 1152-1159 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Pohla, H., Buchner, A.\*, Stadlbauer, B.\*, Frankenberger, B., Stevanovic, S.\*, Walter, S.\*, Frank, R., Schwachula, T.\*, Olek, S.\*, Kopp, J.\*, Willimsky, G.\*, Stief, C.G.\*, Hofstetter, A.\*, Pezzutto, A.\*, Blankenstein, T.\*, Oberneder, R.\*, Schendel, D.J.: High immune response rates and decreased frequencies of regulatory T cells in metastatic renal cell carcinoma patients after tumor cell vaccination. *Mol. Med.* **18**, 1499-1508 (2013)

Polzer, H., Janke, H., Schmid, D., Hiddemann, W., Spiekermann, K.: Casitas B-lineage lymphoma mutants activate AKT to induce transformation in cooperation with class III receptor tyrosine kinases. *Exp. Hematol.* **41**, 271-280 (2013)

Poos, K.\*, Smida, J., Nathrath, M., Maugg, D., Baumhoer, D., Korsching, E.\*: How microRNA and transcription factor co-regulatory networks affect osteosarcoma cell proliferation. *PLoS Comput. Biol.* **9**:e1003210 (2013)

Pöss, J.\*, Lorenz, D.\*, Werner, C.\*, Pavlikova, V.\*, Gensch, C.\*, Speer, T.\*, Alessandrini, F., Berezowski, V.\*, Kuntz, M.\*, Mempel, M.\*, Endres, M.\*, Böhm, M.\*, Laufs, U.\*: Diesel exhaust particles impair endothelial progenitor cells, compromise endothelial integrity, reduce neoangiogenesis, and increase atherogenesis in mice. *Cardiovasc. Toxicol.* **13**, 290-300 (2013)

Potaczek, D.P.\*, Michel, S.\*, Sharma, V.\*, Zeilinger, S., Vogelberg, C.\*, von Berg, A.\*, Bufe, A.\*, Heinzmann, A.\*, Laub, O.\*, Rietschel, E.\*, Simma, B.\*, Frischer, T.\*, Genuneit, J.\*, Illig, T., Kabesch, M.\*: Different *FCER1A* polymorphisms influence IgE levels in asthmatics and non-asthmatics. *Pediatr. Allergy Immunol.* **24**, 441-449 (2013)

Pressler, A.\*, Grosber, M., Halle, M.\*, Ring, J., Brockow, K.: Failure of omalizumab and successful control with ketotifen in a patient with vibratory angio-oedema. *Clin. Exp. Dermatol.* **38**, 151-153 (2013)

Prudente, S.\*, Copetti, M.\*, Morini, E.\*, Mendonca, C.\*, Andreozzi, F.\*, Chandalia, M.\*, Baratta, R.\*, DIAGRAM Consortium (Huth, C., Grallert, H.H., Gieger, C., Klopp, N.B., Meitinger, T., Petersen, A.-K., Thorand, B., Wichmann, H.-E., Illig, T.), Pellegrini, F.\*, Mercuri, L.\*, Bailetti, D.\*, Abate, N.\*, Frittitta, L.\*, Sesti, G.\*, Florez, J.C.\*, Doria, A.\*, Trischitta, V.\*: The *SH2B1* obesity locus and abnormal glucose homeostasis: Lack of evidence for association from a meta-analysis in individuals of European ancestry. *Nutr. Metab. Cardiovasc. Dis.* **23**, 1043-1049 (2013)

Qadir, R.M., Abbaszade, G., Schnelle-Kreis, J., Chow, J.C.\*, Zimmermann, R.: Concentrations and source contributions of particulate organic matter before and after implementation of a low emission zone in Munich, Germany. *Environ. Pollut.* **175**, 158-167 (2013)

Rädler, D.\*, Illi, S.\*, Pinto, L.A.\*, von Mutius, E.\*, Illig, T., Kabesch, M.\*, Schaub, B.\*: *IL10* polymorphisms influence neonatal immune responses, atopic dermatitis, and wheeze at age 3 years. *J. Allergy Clin. Immunol.* **131**, 789-796 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Raitoharju, E.\*, Seppälä, I.\*, Lyytikäinen, L.P.\*, Levula, M.\*, Oksala, N.\*, Klopp, N., Illig, T., Laaksonen, R.\*, Kähönen, M.\*, Lehtimäki, T.\*: A comparison of the accuracy of Illumina HumanHT-12 v3 Expression BeadChip and TaqMan qRT-PCR gene expression results in patient samples from the Tampere Vascular Study. *Atherosclerosis* **226**, 149-152 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Randall, J.C.\*, Winkler, T.W.\*, Kutalik, Z.\*, Berndt, S.I.\*, Jackson, A.U.\*, Monda, K.L.\*, Kilpeläinen, T.O.\*, Esko, T.\*, Mägi, R.\*, Li, S.\*, Workalemahu, T.\*, Feitosa, M.F.\*, Croteau-Chonka, D.C.\*, Day, F.R.\*, Fall, T.\*, Ferreira, T.\*, Gustafsson, S.\*, Locke, A.E.\*, Mathieson, I.\*, Scherag, A.\*, Vedantam, S.\*, Wood, A.R.\*, Liang, L.\*, Steinthorsdottir, V.\*, Thorleifsson, G.\*, Dermitzakis, E.T.\*, Dimas, A.S.\*, Karpe, F.\*, Min, J.L.\*, Nicholson, G.\*, Clegg, D.J.\*, Person, T.\*, Krohn, J.P.\*, Bauer, S.\*, Buechler, C.\*, Eisinger, K.\*, DIAGRAM Consortium (Grallert, H.H., Thorand, B., Klopp, N.B., Petersen, A.-K., Huth, C., Gieger, C., Illig, T., Wichmann, H.-E., Meitinger, T.), Bonnefond, A.\*, Froguel, P.\*, MAGIC Investigators (Illig, T., Grallert, H.H., Thorand, B., Wichmann, H.-E., Gieger, C., Meisinger, C.), Hottenga, J.J.\*, Prokopenko, I.\*, Waite, L.L.\*, Harris, T.B.\*, Smith, A.V.\*, Shuldiner, A.R.\*, McArdle, W.L.\*, Caulfield, M.J.\*, Munroe, P.B.\*, Grönberg, H.\*, Chen, Y.D.\*, Li, G.\*, Beckmann, J.S.\*, Johnson, T.\*, Thorsteinsdottir, U.\*, Teder-Laving, M.\*, Khaw, K.T.\*, Wareham, N.J.\*, Zhao, J.H.\*, Amin, N.\*, Oostra, B.A.\*, Kraja, A.T.\*, Province, M.A.\*, Cupples, L.A.\*, Heard-Costa, N.L.\*, Kaprio, J.\*, Ripatti, S.\*, Surakka, I.\*, Collins, F.S.\*, Saramies, J.\*, Tuomilehto, J.\*, Jula, A.\*, Salomaa, V.\*, Erdmann, J.\*, Hengstenberg, C.\*, Loley, C.\*, Schunkert, H.\*, Lamina, C.\*, Wichmann, H.-E., Albrecht, E., Gieger, C., Hicks, A.A.\*, Johansson, A.\*, Pramstaller, P.P.\*, Kathiresan, S.\*, Speliotes, E.K.\*, Penninx, B.\*, Hartikainen, A.L.\*, Jarvelin, M.R.\*, Gyllensten, U.\*, Boomsma, D.I.\*, Campbell, H.\*, Wilson, J.F.\*, Chanock, S.J.\*, Farrall, M.\*, Goel, A.\*, Medina-Gomez, C.\*, Rivadeneira, F.\*, Estrada, K.\*, Uitterlinden, A.G.\*, Hofman, A.\*, Zillikens, M.C.\*, Den Heijer, M.\*, Kiemeney, L.A.\*, Maschio, A.\*, Hall, P.\*, Tyrer, J.\*, Teumer, A.\*, Völzke, H.\*, Kovacs, P.\*, Tönjes, A.\*, Mangino, M.\*, Spector, T.D.\*, Hayward, C.\*, Rudan, I.\*, Hall, A.S.\*, Samani, N.J.\*, Attwood, A.P.\*, Sambrook, J.G.\*, Hung, J.\*, Palmer, L.J.\*, Lokki, M.L.\*, Sinisalo, J.\*, Boucher, G.\*, Huikuri, H.\*, Lorentzon, M.\*, Ohlsson, C.\*, Eklund, N.\*, Eriksson, J.G.\*, Barlassina, C.\*, Rivolta, C.\*, Nolte, I.M.\*, Snieder, H.\*, van der Klauw, M.M.\*, van Vliet-Ostaptchouk, J.V.\*, Gejman, P.V.\*, Shi, J.\*, Jacobs, K.B.\*, Wang, Z.\*, Bakker, S.J.\*, Mateo Leach, I.\*, Navis, G.\*, van der Harst, P.\*, Martin, N.G.\*, Medland, S.E.\*, Montgomery, G.W.\*, Yang, J.\*, Chasman, D.I.\*, Ridker, P.M.\*, Rose, L.M.\*, Lehtimäki, T.\*, Raitakari, O.\*, Absher, D.\*, Iribarren, C.\*, Basart, H.\*, Hovingh, K.G.\*, Hyppönen, E.\*, Power, C.\*, Anderson, D.\*, Beilby, J.P.\*, Hui, J.\*, Jolley, J.\*, Sager, H.\*, Bornstein, S.R.\*, Schwarz, P.E.\*, Kristiansson, K.\*, Perola, M.\*, Lindstrom, J.\*, Swift, A.J.\*, Uusitupa, M.\*, Atalay, M.\*, Lakka, T.A.\*, Rauramaa, R.\*, Bolton, J.L.\*, Fowkes, G.\*, Fraser, R.M.\*, Price, J.F.\*, Fischer, K.\*, Krjutå Kov, K.\*, Metspalu, A.\*, Mihailov, E.\*, Langenberg, C.\*, Luan, J.\*, Ong, K.K.\*, Chines, P.S.\*, Keinanen-Kiukaanniemi, S.M.\*, Saaristo, T.E.\*, Edkins, S.\*, Franks, P.W.\*, Hallmans, G.\*, Shungin, D.\*, Morris, A.D.\*, Palmer, C.N.\*, Erbel, R.\*, Moebus, S.\*, Nöthen, M.M.\*, Pechlivanis, S.\*, Hveem, K.\*, Narisu, N.\*, Hamsten, A.\*, Humphries, S.E.\*, Strawbridge, R.J.\*, Tremoli, E.\*, Grallert, H.H., Thorand, B., Illig, T., Koenig, W.\*, Müller-Nurasyid, M., Peters, A., Boehm, B.O.\*, Kleber, M.E.\*, Marz, W.\*, Winkelmann, B.R.\*, Kuusisto, J.\*, Laakso, M.\*, Arveiler, D.\*, Cesana, G.\*, Kuulasmaa, K.\*, Virtamo, J.\*, Yarnell, J.W.\*, Kuh, D.\*, Wong, A.\*, Lind, L.\*, de Faire, U.\*, Gigante, B.\*, Magnusson, P.K.\*, Pedersen, N.L.\*, Dedoussis, G.\*, Dimitriou, M.\*, Kolovou, G.\*, Kanoni, S.\*, Stirrups, K.\*, Bonnycastle, L.L.\*, Njølstad, I.\*, Wilsgaard, T.\*, Ganna, A.\*, Rehnberg, E.\*, Hingorani, A.\*, Kivimaki, M.\*, Kumari, M.\*, Assimes, T.L.\*, Barroso, I.\*, Boehnke, M.\*, Borecki, I.B.\*, Deloukas, P.\*, Fox, C.S.\*, Frayling, T.\*, Groop, L.C.\*, Haritunians, T.\*, Hunter, D.\*, Ingelsson, E.\*, Kaplan, R.\*, Mohlke, K.L.\*, O'Connell, J.R.\*, Schlessinger, D.\*, Strachan, D.P.\*, Stefansson, K.\*, van Duijn, C.M.\*, Abecasis, G.R.\*, McCarthy, M.I.\*, Hirschhorn, J.N.\*, Qi, L.\*, Loos, R.J.\*, Lindgren, C.M.\*, North, K.E.\*: Sex-stratified genome-wide association studies including 270,000 individuals show

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

sexual dimorphism in genetic loci for anthropometric traits. PLoS Genet. 9:e1003500 (2013)

Rebala, K.\*, Martinez-Cruz, B.\*, Tönjes, A.\*, Kovacs, P.\*, Stumvoll, M.\*, Lindner, I.\*, Büttner, A\*, Wichmann, H.-E., Sivakova, D.\*, Sotak, M.\*, Quintana-Murci, L.\*, Szczerkowska, Z.\*, Comas, D.\*: Contemporary paternal genetic landscape of Polish and German populations: From early medieval Slavic expansion to post-World War II resettlements. *Eur. J. Hum. Genet.* **21**, 415-422 (2013)

Redeker, C.\*, Schuster-Gossler, K.\*, Kremmer, E., Gossler, A.\*: Normal development in mice over-expressing the intracellular domain of DLL1 argues against reverse signaling by DLL1 in vivo. *PLoS ONE* **8**:e79050 (2013)

Reiner, A.P.\*, Hartiala, J.\*, Zeller, T.\*, Bis, J.C.\*, Dupuis, J.\*, Fornage, M.\*, Baumert, J., Kleber, M.E.\*, Wild, P.S.\*, Baldus, S.\*, Bielinski, S.J.\*, Fontes, J.D.\*, Illig, T., Keating, B.J.\*, Lange, L.A.\*, Ojeda, F.\*, Müller-Nurasyid, M., Munzel, T.F.\*, Psaty, B.M.\*, Rice, K.\*, Rotter, J.I.\*, Schnabel, R.B.\*, Tang, W.H.\*, Thorand, B., Erdmann, J.\*, CARDIoGRAM Consortium (Wichmann, H.-E., Illig, T., Klopp, N.B., Meitinger, T., Peters, A., Meisinger, C., Döring, A.), Jacobs, D.R.\*, Wilson, J.G.\*, Koenig, W.\*, Tracy, R.P.\*, Blankenberg, S.\*, Marz, W.\*, Gross, M.D.\*, Benjamin, E.J.\*, Hazen, S.L.\*, Allayee, H.\*: Genome-wide and gene-centric analyses of circulating myeloperoxidase levels in the charge and care consortia. *Hum. Mol. Genet.* **22**, 3381-3393 (2013)

Reuther, S.\*, Schmetzer, H.\*, Schuster, F.R.\*, Krell, P.\*, Grabrucker, C.\*, Liepert, A.\*, Kroell, T.\*, Kolb, H.-J., Borkhardt, A.\*, Buhmann, R.: *In vitro*-induced response patterns of antileukemic T cells: Characterization by spectratyping and immunophenotyping. *Clin. Exp. Med.* **13**, 29-48 (2013)

Richter, G.H.S.\*, Fasan, A.\*, Hauer, K.\*, Grunewald, T.G.P.\*, Berns, C.\*, Rössler, S.\*, Naumann, I.\*, Staege, M.S.\*, Fulda, S.\*, Esposito, I., Burdach, S.\*: G-protein coupled receptor 64 promotes invasiveness and metastasis in Ewing sarcomas through PGF and MMP1. *J. Pathol.* **230**, 70-81 (2013)

Ried, J.S., Baurecht, H.\*, Stückler, F., Krumsiek, J., Gieger, C., Heinrich, J., Kabesch, M.\*, Prehn, C., Peters, A., Rodriguez, E.\*, Schulz, H., Strauch, K., Suhre, K., Wang-Sattler, R., Wichmann, H.-E., Theis, F.J., Illig, T., Adamski, J., Weidinger, S.\*: Integrative genetic and metabolite profiling analysis suggests altered phosphatidylcholine metabolism in asthma. *Allergy* **68**, 629-636 (2013)

Riedel, C.\*, von Kries, R.\*, Fenske, N.\*, Strauch, K., Ness, A.R.\*, Beyerlein, A.: Interactions of genetic and environmental risk factors with respect to body fat mass in children: Results from the ALSPAC study. *Obesity* **21**, 1238-1242 (2013)

Rieger, A.\*, Mansmann, U.\*, Maier, W., Seitz, L.\*, Brandt, T.\*, Strupp, M.\*, Bayer, O.\*: Versorgungssituation von Patienten mit dem Leitsymptom Schwindel. *Gesundheitswesen*, DOI:10.1055/s-0033-1357145 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Rietveld, C.A.\*, Medland, S.E.\*, Derringer, J.\*, Yang, J.\*, Esko, T.\*, Martin, N.W.\*, Westra, H.J.\*, Shakhbazov, K.\*, Abdellaoui, A.\*, Agrawal, A.\*, Albrecht, E., Alizadeh, B.Z.\*, Amin, N.\*, Barnard, J.\*, Baumeister, S.E.\*, Benke, K.S.\*, Bielak, L.F.\*, Boatman, J.A.\*, Boyle, P.A.\*, Davies, G.\*, de Leeuw, C.\*, Eklund, N.\*, Evans, D.S.\*, Ferhmann, R.\*, Fischer, K.\*, Gieger, C., Gjessing, H.K.\*, Hägg, S.\*, Harris, J.R.\*, Hayward, C.\*, Holzapfel, C.\*, Ibrahim-Verbaas, C.A.\*, Ingelsson, E.\*, Jacobsson, B.\*, Joshi, P.K.\*, Jugessur, A.\*, Kaakinen, M.\*, Kanoni, S.\*, Karjalainen, J.\*, Kolcic, I.\*, Kristiansson, K.\*, Kutalik, Z.\*, Lahti, J.\*, Lee, S.H.\*, Lin, P.\*, Lind, P.A.\*, Liu, Y.\*, Lohman, K.\*, Loitfelder, M.\*, McMahon, G.\*, Vidal, P.M.\*, Meirelles, O.\*, Milani, L.\*, Myhre, R.\*, Nuotio, M.L.\*, Oldmeadow, C.J.\*, Petrovic, K.E.\*, Peyrot, W.J.\*, Polasek, O.\*, Quaye, L.\*, Reinmaa, E.\*, Rice, J.P.\*, Rizzi, T.S.\*, Schmidt, H.\*, Schmidt, R.\*, Smith, A.V.\*, Smith, J.A.\*, Tanaka, T.\*, Terracciano, A.\*, van der Loos, M.J.\*, Vitart, V.\*, Völzke, H.\*, Wellmann, J.\*, Yu, L.\*, Zhao, W.\*, Allik, J.\*, Attia, J.R.\*, Bandinelli, S.\*, Bastardot, F.\*, Beauchamp, J.\*, Bennett, D.A.\*, Berger, K.\*, Bierut, L.J.\*, Boomsma, D.I.\*, Bültmann, U.\*, Campbell, H.\*, Chabris, C.F.\*, Cherkas, L.\*, Chung, M.K.\*, Cucca, F.\*, de Andrade, M.\*, de Jager, P.L.\*, de Neve, J.E.\*, Deary, I.J.\*, Dedoussis, G.V.\*, Deloukas, P.\*, Dimitriou, M.\*, Eiriksdottir, G.\*, Elderson, M.F.\*, Eriksson, J.G.\*, Evans, D.M.\*, Faul, J.D.\*, Ferrucci, L.\*, Garcia, M.E.\*, Grönberg, H.\*, Guðnason, V.\*, Hall, P.\*, Harris, J.M.\*, Harris, T.B.\*, Hastie, N.D.\*, Heath, A.C.\*, Hernandez, D.G.\*, Hoffmann, W.\*, Hofman, A.\*, Holle, R., Holliday, E.G.\*, Hottenga, J.J.\*, Iacono, W.G.\*, Illig, T., Jarvelin, M.R.\*, Kähönen, M.\*, Kaprio, J.\*, Kirkpatrick, R.M.\*, Kowgier, M.\*, Latvala, A.\*, Launer, L.J.\*, Lawlor, D.A.\*, Lehtimäki, T.\*, Li, J.\*, Lichtenstein, P.\*, Lichtner, P., Liewald, D.C.\*, Madden, P.A.\*, Magnusson, P.K.\*, Mäkinen, T.E.\*, Masala, M.\*, McGue, M.\*, Metspalu, A.\*, Mielck, A., Miller, M.B.\*, Montgomery, G.W.\*, Mukherjee, S.\*, Nyholt, D.R.\*, Oostra, B.A.\*, Palmer, L.J.\*, Palotie, A.\*, Penninx, B.W.\*, Perola, M.\*, Peyser, P.A.\*, Preisig, M.\*, Räikkönen, K.\*, Raitakari, O.T.\*, Realo, A.\*, Ring, S.M.\*, Ripatti, S.\*, Rivadeneira, F.\*, Rudan, I.\*, Rustichini, A.\*, Salomaa, V.\*, Sarin, A.P.\*, Schlessinger, D.\*, Scott, R.J.\*, Snieder, H.\*, St Pourcain, B.\*, Starr, J.M.\*, Sul, J.H.\*, Surakka, I.\*, Svento, R.\*, Teumer, A.\*, The LifeLines Cohort Study\*, Tiemeier, H.\*, van Rooij, F.J.\*, van Wagoner, D.R.\*, Vartiainen, E.\*, Viikari, J.\*, Vollenweider, P.\*, Vonk, J.M.\*, Waeber, G.\*, Weir, D.R.\*, Wichmann, H.-E., Widen, E.\*, Willemsen, G.\*, Wilson, J.F.\*, Wright, A.F.\*, Conley, D.\*, Davey-Smith, G.\*, Franke, L.\*, Groenen, P.J.\*, Johannesson, M.\*, Kardia, S.L.\*, Krueger, R.F.\*, Laibson, D.\*, Martin, N.G.\*, Meyer, M.N.\*, Posthuma, D.\*, Thurik, A.R.\*, Timpson, N.J.\*, Uitterlinden, A.G.\*, van Duijn, C.M.\*, Visscher, P.M.\*, Benjamin, D.J.\*, Cesarini, D.\*, Koellinger, P.D.\*: GWAS of 126,559 individuals identifies genetic variants associated with educational attainment. Science 340, 1467-1471 (2013)

Ringelhan, M., Heikenwälder, M., Protzer, U.: Direct effects of hepatitis B virus-encoded proteins and chronic infection in liver cancer development. *Dig. Dis.* **31**, 138-151 (2013)

Rogowski, W.H., Grosse, S.D.\*, Schmidtke, J.\*, Marckmann, G.\*: Criteria for fairly allocating scarce health-care resources to genetic tests: Which matter most? *Eur. J. Hum. Genet.* **22**, 25-31 (2014) [published online 2013]

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Rohrmann, S.\*, Linseisen, J., Nöthlings, U.\*, Overvad, K.\*, Egeberg, R.\*, Tjønneland, A.\*, Boutron-Ruault, M.C.\*, Clavel-Chapelon, F.\*, Cottet, V.\*, Pala, V.\*, Tumino, R.\*, Palli, D.\*, Panico, S.\*, Vineis, P.\*, Boeing, H.\*, Pischon, T.\*, Grote, V.\*, Teucher, B.\*, Khaw, K.-T.\*, Wareham, N.J.\*, Crowe, F.L.\*, Goufa, I.\*, Orfanos, P.\*, Trichopoulou, A.\*, Jeurnink, S.M.\*, Siersema, P.D.\*, Peeters, P.H.\*, Brustad, M.\*, Engeset, D.\*, Skeie, G.\*, Duell, E.J.\*, Amiano, P.\*, Barricarte, A.\*, Molina-Montes, E.\*, Rodriguez, L.\*, Tormo, M.-J.\*, Sund, M.\*, Ye, W.\*, Lindkvist, B.\*, Johansen, D.\*, Ferrari, P.\*, Jenab, M.\*, Slimani, N.\*, Ward, H.\*, Riboli, E.\*, Norat, T.\*, Bueno-de-Mesquita, H.B.\*: Meat and fish consumption and risk of pancreatic cancer: Results from the European Prospective Investigation into Cancer and Nutrition. *Int. J. Cancer* 132, 617-624 (2013)

Rohrmann, S.\*, Overvad, K.\*, Bueno-de-Mesquita, H.B.\*, Jakobsen, M.U.\*, Egeberg, R.\*, Tjønneland, A.\*, Nailler, L.\*, Boutron-Ruault, M.C.\*, Clavel-Chapelon, F.\*, Krogh, V.\*, Palli, D.\*, Panico, S.\*, Tumino, R.\*, Ricceri, F.\*, Bergmann, M.M.\*, Boeing, H.\*, Li, K.\*, Kaaks, R.\*, Khaw, K.T.\*, Wareham, N.J.\*, Crowe, F.L.\*, Key, T.J.\*, Naska, A.\*, Trichopoulou, A.\*, Trichopoulos, D.\*, Leenders, M.\*, Peeters, P.H.\*, Engeset, D.\*, Parr, C.L.\*, Skeie, G.\*, Jakszyn, P.\*, Sánchez, M.J.\*, Huerta, J.M.\*, Redondo, M.L.\*, Barricarte, A.\*, Amiano, P.\*, Drake, I.\*, Sonestedt, E.\*, Hallmans, G.\*, Johansson, I.\*, Fedirko, V.\*, Romieux, I.\*, Ferrari, P.\*, Norat, T.\*, Vergnaud, A.C.\*, Riboli, E.\*, Linseisen, J.: Meat consumption and mortality - results from the European Prospective Investigation into Cancer and Nutrition. *BMC Med.* 11:63 (2013)

Rohrmann, S.\*, Linseisen, J., Allen, N.\*, Bueno-de-Mesquita, H.B.\*, Johnsen, N.F.\*, Tjonneland, A.\*, Overvad, K.\*, Kaaks, R.\*, Teucher, B.\*, Boeing, H.\*, Pischon, T.\*, Lagiou, P.\*, Trichopoulou, A.\*, Trichopoulos, D.\*, Palli, D.\*, Krogh, V.\*, Tunnino, R.\*, Ricceri, F.\*, Suarez, M.V.A.\*, Agudo, A.\*, Sánchez, M.J.\*, Chirlaque, M.D.\*, Barricarte, A.\*, Larrañaga, N.\*, Boshuizen, H.\*, van Kranen, H.J.\*, Stettin, P.\*, Johansson, M.\*, Bjartell, A.\*, Ulmert, D.\*, Khaw, K.T.\*, Wareham, N.J.\*, Ferrari, P.\*, Romieux, I.\*, Gunter, M.J.R.\*, Riboli, E.\*, Key, T.J.\*: Smoking and the risk of prostate cancer in the European Prospective Investigation into Cancer and Nutrition. *Br. J. Cancer* 108, 708-714 (2013),

Romm, H.\*, Barnard, S.\*, Boulay-Greene, H.\*, de Amicis, A.\*, de Sanctis, S.\*, Franco, M.\*, Herodin, F.\*, Jones, A.\*, Kulka, U.\*, Lista, F.\*, Martigne, P.\*, Moquet, J.\*, Oestreicher, U.\*, Rothkamm, K.\*, Thierens, H.\*, Valente, M.\*, Vandersickel, V.\*, Vral, A.\*, Braselmann, H., Meineke, V.\*, Abend, M.\*, Beinke, C.\*: Laboratory intercomparison of the cytokinesis-block micronucleus assay. *Radiat. Res.* **180**, 120-128 (2013)

Rothkamm, K.\*, Beinke, C.\*, Romm, H.\*, Badie, C.\*, Balagurunathan, Y.\*, Barnard, S.\*, Bernard, N.\*, Boulay-Greene, H.\*, Brengues, M.\*, de Amicis, A.\*, de Sanctis, S.\*, Greither, R.\*, Herodin, F.\*, Jones, A.\*, Kabacik, S.\*, Knie, T.\*, Kulka, U.\*, Lista, F.\*, Martigne, P.\*, Missel, A.\*, Moquet, J.\*, Oestreicher, U.\*, Peinnequin, A.\*, Poyot, T.\*, Roessler, U.\*, Scherthan, H.\*, Terbrueggen, B.\*, Thierens, H.\*, Valente, M.\*, Vral, A.\*, Zenhausern, F.\*, Meineke, V.\*, Braselmann, H., Abend, M.\*: Comparison of established and emerging biodosimetry assays. *Radiat. Res.* **180**, 111-119 (2013)

Rothkamm, K.\*, Horn, S.\*, Scherthan, H.\*, Rößler, U.\*, de Amicis, A.\*, Barnard, S.\*, Kulka, U.\*, Lista, F.\*, Meineke, V.\*, Braselmann, H., Beinke, C.\*, Abend, M.\*: Laboratory intercomparison on the γ-H2AX foci assay. *Radiat. Res.* **180**, 149-155 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Rottmann, M., Mielck, A.: ,Walkability' und körperliche Aktivität - Stand der empirischen Forschung auf Basis der ,Neighbourhood Environment Walkability Scale (NEWS)'. *Gesundheitswesen* **76**, 108-115 (2014) [published online 2013]

Rzehak, P.\*, Grote, V.\*, Lattka, E., Weber, M.\*, Gruszfeld, D.\*, Socha, P.\*, Closa-Monasterolo, R.\*, Escribano, J.\*, Giovannini, M.\*, Verduci, E.\*, Goyens, P.\*, Martin, F.\*, Langhendries, J.P.\*, Demmelmair, H.\*, Klopp, N., Illig, T., Koletzko, B.\*, European Childhood Obesity Trial Study Group: Associations of *IGF-1 gene variants* and milk protein intake with IGF-I concentrations in infants at age 6 months - results from a randomized clinical trial. *Growth Horm. IGF Res.* **23**, 149-158 (2013)

Rzehak, P., Wijga, A.H.\*, Keil, T.\*, Eller, E.\*, Bindslev-Jensen, C.\*, Smit, H.A.\*, Weyler, J.\*, Dom, S.\*, Sunyer, J.\*, Mendez, M.\*, Torrent, M.\*, Vall, O.\*, Bauer, C.P.\*, Berdel, D.\*, Schaaf, B.\*, Chen, C.-M., Bergström, A.\*, Fantini, M.P.\*, Mommers, M.\*, Wahn, U.\*, Lau, S.\*, Heinrich, J.: Body mass index trajectory classes and incident asthma in childhood: Results from 8 European birth cohorts - a Global Allergy and Asthma European Network initiative. *J. Allergy Clin. Immunol.* **131**, 1528-1536 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Sabater-Lleal, M.\*, Huang, J.\*, Chasman, D.\*, Naitza, S.\*, Dehghan, A.\*, Johnson, A.D.\*, Teumer, A.\*, Reiner, A.P.\*, Folkersen, L.\*, Basu, S.\*, Rudnicka, A.R.\*, Trompet, S.\*, Mälarstig, A.\*, Baumert, J., Bis, J.C.\*, Guo, X.\*, Hottenga, J.J.\*, Shin, S.Y.\*, Lopez, L.M.\*, Lahti, J.\*, Tanaka, T.\*, Yanek, L.R.\*, Oudot-Mellakh, T.\*, Wilson, J.F.\*, Navarro, P.\*, Huffman, J.E.\*, Zemunik, T.\*, Redline, S.\*, Mehra, R.\*, Pulanic, D.\*, Rudan, I.\*, Wright, A.F.\*, Kolcic, I.\*, Polasek, O.\*, Wild, S.H.\*, Campbell, H.\*, Curb, J.D.\*, Wallace, R.\*, Liu, S.\*, Eaton, C.B.\*, Becker, D.M.\*, Becker, L.C.\*, Bandinelli, S.\*, Räikkönen, K.\*, Widen, E.\*, Palotie, A.\*, Fornage, M.\*, Green, D.\*, Gross, M.\*, Davies, G.\*, Harris, S.E.\*, Liewald, D.C.\*, Starr, J.M.\*, Williams, F.M.\*, Grant, P.J.\*, Spector, T.D.\*, Strawbridge, R.J.\*, Silveira, A.\*, Sennblad, B.\*, Rivadeneira, F.\*, Uitterlinden, A.G.\*, Franco, O.H.\*, Hofman, A.\*, van Dongen, J.\*, Willemsen, G.\*, Boomsma, D.I.\*, Yao, J.\*, Swords Jenny, N.\*, Haritunians, T.\*, McKnight, B.\*, Lumley, T.\*, Taylor, K.D.\*, Rotter, J.I.\*, Psaty, B.M.\*, Peters, A., Gieger, C., Illig, T., Grotevendt, A.\*, Homuth, G.\*, Völzke, H.\*, Kocher, T.\*, Goel, A.\*, Franzosi, M.G.\*, Seedorf, U.\*, Clarke, R.\*, Steri, M.\*, Tarasov, K.V.\*, Sanna, S.\*, Schlessinger, D.\*, Stott, D.J.\*, Sattar, N.\*, Buckley, B.M.\*, Rumley, A.\*, Lowe, G.D.\*, McArdle, W.L.\*, Chen, M.H.\*, Tofler, G.H.\*, Song, J.\*, Boerwinkle, E.\*, Folsom, A.R.\*, Rose, L.M.\*, Franco-Cereceda, A.\*, Teichert, M.\*, Ikram, M.A.\*, Mosley, T.H.\*, Bevan, S.\*, Dichgans, M.\*, Rothwell, P.M.\*, Sudlow, C.L.\*, Hopewell, J.C.\*, Chambers, J.C.\*, Saleheen, D.\*, Kooner, J.S.\*, Danesh, J.\*, Nelson, C.P.\*, Erdmann, J.\*, Reilly, M.P.\*, Kathiresan, S.\*, Schunkert, H.\*, Morange, P.E.\*, Ferrucci, L.\*, Eriksson, J.G.\*, Jacobs, D.\*, Deary, I.J.\*, Soranzo, N.\*, Witteman, J.C.\*, de Geus, E.J.\*, Tracy, R.P.\*, Hayward, C.\*, Koenig, W.\*, Cucca, F.\*, Jukema, J.W.\*, Eriksson, P.\*, Seshadri, S.\*, Markus, H.S.\*, Watkins, H.\*, Samani, N.J.\*, VTE Consortium, STROKE Consortium, Wellcome Trust Case Control Consortium 2 (WTCCC2) (Rückert, I.-M., Wichmann, H.-E., Winkelmann, J., Klopp, N.B.), C4D Consortium, CARDIOGRAM Consortium (Illig, T., Meisinger, C., Wichmann, H.-E., Döring, A., Klopp, N.B., Peters, A., Meitinger, T.), Wallaschofski, H.\*, Smith, N.L.\*, Tregouet, D.\*, Ridker, P.M.\*, Tang, W.\*, Strachan, D.P.\*, Hamsten, A.\*, O'Donnell, C.J.\*: Multiethnic meta-analysis of genome-wide association studies in >100 000 subjects identifies 23 fibrinogen-associated loci but no strong evidence of a causal association between circulating fibrinogen and cardiovascular disease. Circulation 128, 1310-1324 (2013)

Salomaa, S.\*, Prise, K.M.\*, Atkinson, M.J., Wojcik, A.\*, Auvinen, A.\*, Grosche, B.\*, Sabatier, L.\*, Jourdain, J.R.\*, Salminen, E.\*, Baatout, S.\*, Kulka, U.\*, Rabus, H.\*, Blanchardon, E.\*, Averbeck, D.\*, Weiss, W.\*: State of the art in research into the risk of low dose radiation exposure - findings of the fourth MELODI workshop. *J. Radiol. Prot.* **33**, 589-603 (2013)

Santner-Nanan, B.\*, Straubinger, K.\*, Hsu, P.\*, Parnell, G.\*, Tang, B.\*, Xu, B.\*, Makris, A.\*, Hennessy, A.\*, Peek, M.J.\*, Busch, D.H., da Costa, C.P.\*, Nanan, R.\*: Fetal-maternal alignment of regulatory T cells correlates with IL-10 and bcl-2 upregulation in pregnancy. *J. Immunol.* **191**, 145-153 (2013)

Santos de Miranda, B.\*, Linares, E.M., Thalhammer, S., Kubota, L.T.\*: Development of a disposable and highly sensitive paper-based immunosensor for early diagnosis of Asian soybean rust. *Biosens. Bioelectron.* **45**, 123-128 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Sargurupremraj, M., Pukelsheim, K., Hofer, T.P.J., Wjst, M.: Intermediary quantitative traits - an alternative in the identification of disease genes in asthma? *Genes Immun.* **15**, 1–7 (2014) [published online 2013]

Sargurupremraj, M., Wjst, M.: Transposable elements and their potential role in complex lung disorder. *Respir. Res.* **14**:99 (2013)

Saunders, S.P.\*, Goh, C.S.\*, Brown, S.J.\*, Palmer, C.N.\*, Porter, R.M.\*, Cole, C.\*, Campbell, L.E.\*, Gierlinski, M.\*, Barton, G.J.\*, Schneider, G.\*, Balmain, A.\*, Prescott, A.R.\*, Weidinger, S.\*, Baurecht, H.\*, Kabesch, M.\*, Gieger, C., Lee, Y.A.\*, Tavendale, R.\*, Mukhopadhyay, S.\*, Turner, S.W.\*, Madhok, V.B.\*, Sullivan, F.M.\*, Relton, C.\*, Burn, J.\*, Meggitt, S.\*, Smith, C.H.\*, Allen, M.A.\*, Barker, J.N.\*, Reynolds, N.J.\*, Cordell, H.J.\*, Irvine, A.D.\*, McLean, W.H.\*, Sandilands, A.\*, Fallon, P.G.\*: *Tmem79/Matt* is the matted mouse gene and is a predisposing gene for atopic dermatitis in human subjects. *J. Allergy Clin. Immunol.* **132**, 1121-1129 (2013)

Sauter, D.\*, Hotter, D.\*, Engelhart, S.\*, Giehler, F., Kieser, A., Kubisch, C.\*, Kirchhoff, F.\*: A rare missense variant abrogates the signaling activity of tetherin/BST-2 without affecting its effect on virus release. *Retrovirology* **10**:85 (2013)

Saxena, R.\*, Saleheen, D.\*, Been, L.F.\*, Garavito, M.L.\*, Braun, T.\*, Bjonnes, A.\*, Young, R.\*, Ho, W.K.\*, Rasheed, A.\*, Frossard, P.\*, Sim, X.\*, Hassanali, N.\*, Radha, V.\*, Chidambaram, M.\*, Liju, S.\*, Rees, S.D.\*, Ng, D.P.\*, Wong, T.Y.\*, Yamauchi, T.\*, Hara, K.\*, Tanaka, Y.\*, Hirose, H.\*, McCarthy, M.I.\*, Morris, A.P.\*, DIAGRAM Consortium (Meitinger, T., Huth, C., Illig, T., Thorand, B., Wichmann, H.-E., Petersen, A.-K., Klopp, N., Gieger, C., Grallert, H.H.), MuTHER Consortium, AGEN Consortium, Basit, A.\*, Barnett, A.H.\*, Katulanda, P.\*, Matthews, D.\*, Mohan, V.\*, Wander, G.S.\*, Singh, J.R.\*, Mehra, N.K.\*, Ralhan, S.\*, Kamboh, M.I.\*, Mulvihill, J.J.\*, Maegawa, H.\*, Tobe, K.\*, Maeda, S.\*, Cho, Y.S.\*, Tai, E.S.\*, Kelly, M.A.\*, Chambers, J.C.\*, Kooner, J.S.\*, Kadowaki, T.\*, Deloukas, P.\*, Rader, D.J., Danesh, J.\*, Sanghera, D.K.\*: Genome-wide association study identifies a novel locus contributing to type 2 diabetes susceptibility in Sikhs of Punjabi origin from India. *Diabetes* **62**, 1746-1755 (2013)

Schaal, U.\*, Grenz, S.\*, Merkel, S.\*, Rau, T.T.\*, Hadjihannas, M.V.\*, Kremmer, E., Chudasama, P.\*, Croner, R.S.\*, Behrens, J.\*, Stürzl, M.\*, Naschberger, E.\*: Expression and localization of axin 2 in colorectal carcinoma and its clinical implication. *Int. J. Colorectal Dis.* **28**, 1469-1478 (2013)

Schäfer, T.\*, Pritzkuleit, R.\*, Jeszenszky, C.\*, Malzahn, J.\*, Maier, W., Günther, K.P.\*, Niethard, F.\*: Trends and geographical variation of primary hip and knee joint replacement in Germany. *Osteoarthr. Cartil.* **21**, 279-288 (2013)

Schäffer, M., Gröger, T., Pütz, M.\*, Zimmermann, R.: Assessment of the presence of damiana in herbal blends of forensic interest based on comprehensive two-dimensional gas chromatography. *Forensic Toxicol.* **31**, 251-262 (2013)

Schäffer, M., Gröger, T., Pütz, M.\*, Zimmermann, R.: Forensic profiling of sassafras oils based on comprehensive two-dimensional gas chromatography. *Forensic Sci. Int.* **229**, 108-115 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Schäffer, M., Dieckmann, S.\*, Pütz, M.\*, Kohles, T.\*, Pyell, U.\*, Zimmermann, R.: Impact of reaction parameters on the chemical profile of 3,4-methylenedioxymethamphetamine synthesized via reductive amination: Target analysis based on GC-qMS compared to non-targeted analysis based on GC×GC-TOF-MS. *Forensic Sci. Int.* **223**, 201-211 (2013)

Schäffler, M., Semmler-Behnke, M., Sarioglu, H., Takenaka, S., Wenk, A., Schleh, C., Hauck, S.M., Johnston, B.D., Kreyling, W.G.: Serum protein identification and quantification of the corona of 5, 15 and 80 nm gold nanoparticles. *Nanotechnology* **24**:265103 (2013)

Schamberger, A.C., Mise, N., Jia, J., Genoyer, E., Yildirim, A.Ö., Meiners, S., Eickelberg, O.: Cigarette smoke-induced disruption of bronchial epithelial tight junctions is prevented by transforming growth factor-beta. *Am. J. Respir. Cell Mol. Biol.*, DOI:10.1165/rcmb.2013-0090OC (2013)

Schendel, D.J., Frankenberger, B.: Limitations for TCR gene therapy by MHC-restricted fratricide and TCR-mediated hematopoietic stem cell toxicity. *Oncolmmunology* **2**:e22410 (2013)

Schepler, C., Sklorz, M., Passig, J., Famiglini, G.\*, Cappiello, A.\*, Zimmermann, R.: Flow injection of liquid samples to a mass spectrometer with ionization under vacuum conditions: A combined ion source for single-photon and electron impact ionization. *Anal. Bioanal. Chem.* **405**, 6953-6957 (2013)

Scherer, K.\*, Brockow, K., Aberer, W.\*, Gooi, J.H.C.\*, Demoly, P.\*, Romano, A.\*, Schnyder, B.\*, Whitaker, P.\*, Cernadas, J.S.R.\*, Bircher, A.J.\*: Desensitization in delayed drug hypersensitivity reactions - an EAACI position paper of the Drug Allergy Interest Group. *Allergy* **68**, 844-852 (2013)

Schick, J.\*, Vogt, V.\*, Zerwes, M., Kroell, T.\*, Kraemer, D.\*, Köhne, C.H.\*, Hausmann, A.\*, Buhmann, R., Tischer, J.\*, Schmetzer, H.M.: Antileukemic T-cell responses can be predicted by the composition of specific regulatory T-cell subpopulations. *J. Immunother.* **36**, 223-237 (2013)

Schieck, M.\*, Michel, S.\*, Suttner, K., Illig, T., Zeilinger, S., Franke, A.\*, von Berg, A.\*, Bufe, A.\*, Heinzmann, A.\*, Laub, O.\*, Rietschel, E.\*, Frischer, T.\*, Genuneit, J.\*, Kerzel, S.\*, Kabesch, M.\*: Genetic variation in T<sub>H</sub>17 pathway genes, childhood asthma, and total serum IgE levels. *J. Allergy Clin. Immunol.* **133**, 888–891 (2014) [published online 2013]

Schimmelmann, B.G.\*, Hinney, A.\*, Scherag, A.\*, Pütter, C.\*, Pechlivanis, S.\*, Cichon, S.\*, Jöckel, K.-H.\*, Schreiber, S.\*, Wichmann, H.-E., Albayrak, Ö.\*, Dauvermann, M.\*, Konrad, K.\*, Wilhelm, C.\*, Herpertz-Dahlmann, B.\*, Lehmkuhl, G.\*, Sinzig, J.\*, Renner, T.J.\*, Romanos, M.\*, Warnke, A.\*, Lesch, K.P.\*, Reif, A.\*, Hebebrand, J.\*: Bipolar disorder risk alleles in children with ADHD. *J. Neural Transm.* **120**, 1611-1617 (2013)

Schlauderer, F.\*, Lammens, K.\*, Nagel, D., Vincendeau, M., Eitelhuber, A.C., Verhelst, S.H.\*, Kling, D.\*, Chrusciel, A.\*, Ruland, J.\*, Krappmann, D., Hopfner, K.-P.\*: Structural analysis of phenothiazine derivatives as allosteric inhibitors of the MALT1 paracaspase. *Angew. Chem.-Int. Edit.* **52**, 10384-10387 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Schleidgen, S.\*, Klingler, C.\*, Bertram, T.\*, Rogowski, W.H., Marckmann, G.\*: What is personalized medicine: Sharpening a vague term based on a systematic literature review. *BMC Med. Ethics* **14**:55 (2013)

Schmid, B.\*, Hruscha, A.\*, Högl, S.\*, Banzhaf-Strathmann, J.\*, Strecker, K.\*, van der Zee, J.\*, Teucke, M.\*, Eimer, S.\*, Hegermann, J.\*, Kittelmann, M.\*, Kremmer, E., Cruts, M.\*, Solchenberger, B.\*, Hasenkamp, L.\*, van Bebber, F.\*, van Broeckhoven, C.\*, Edbauer, D.\*, Lichtenthaler, S.F.\*, Haass, C.\*: Loss of ALS-associated TDP-43 in zebrafish causes muscle degeneration, vascular dysfunction, and reduced motor neuron axon outgrowth. *Proc. Natl. Acad. Sci. U.S.A.* **110**, 4986-4991 (2013)

Schmitt, S., Saathoff, F.\*, Meissner, L.\*, Schropp, E.-M., Lichtmannegger, J., Schulz, S., Eberhagen, C., Borchard, S., Aichler, M., Adamski, J., Plesnila, N.\*, Rothenfusser, S.\*, Kroemer, G.\*, Zischka, H.: A semi-automated method for isolating functionally intact mitochondria from cultured cells and tissue biopsies. *Anal. Biochem.* **443**, 66-74 (2013)

Schneider, B.\*, Lukaschek, K., Baumert, J.J., Meisinger, C., Erazo, N.\*, Ladwig, K.-H.: Living alone, obesity, and smoking increase risk for suicide independently of depressive mood findings from the population-based MONICA/KORA Augsburg cohort study. *J. Affect. Disord.* **152**, 416-421 (2014)

Schneider, G.\*, Zitzmann, M.\*, Gromoll, J.\*, Ladwig, K.-H., Berger, K.\*: The relation between sex hormone levels, the androgen receptor CAGn-polymorphism and depression and mortality in older men in a community study. *Psychoneuroendocrinology* **38**, 2083-2090 (2013)

Schnittger, S.\*, Eder, C.\*, Jeromin, S.\*, Alpermann, T.\*, Fasan, A.\*, Grossmann, V.\*, Kohlmann, A.\*, Illig, T., Klopp, N., Wichmann, H.-E., Kreuzer, K.A.\*, Schmid, C.\*, Staib, P.\*, Peceny, R.\*, Schmitz, N.\*, Kern, W.\*, Haferlach, C.\*, Haferlach, T.\*: *ASXL1* exon 12 mutations are frequent in AML with intermediate risk karyotype and are independently associated with an adverse outcome. *Leukemia* **27**, 82-91 (2013)

Scholtens, S.\*, Postma, D.S.\*, Moffatt, M.F.\*, Panasevich, S.\*, Granell, R.\*, Henderson, A.J.\*, Melén, E.\*, Nyberg, F.\*, Pershagen, G.\*, Jarvis, D.\*, Ramasamy, A.\*, Wjst, M., Svanes, C.\*, Bouzigon, E.\*, Demenais, F.\*, Kauffmann, F.\*, Siroux, V.\*, von Mutius, E.\*, Ege, M.J.\*, Braun-Fahrländer, C.\*, Genuneit, J.\*, GABRIELA Study Group, Brunekreef, B.\*, Smit, H.A.\*, Wijga, A.H.\*, Kerkhof, M.\*, Curjuric, I.\*, Imboden, M.\*, Thun, G.A.\*, Probst-Hensch, N.\*, Freidin, M.B.\*, Bragina, E.I.\*, Deev, I.A.\*, Puzyrev, V.P.\*, Daley, D.\*, Park, J.\*, Becker, A.\*, Chan-Yeung, M.\*, Kozyrskyj, A.L.\*, Pare, P.\*, Marenholn, I.\*, Lau, S.\*, Keil, T.\*, Lee, Y.A.\*, Kabesch, M.\*, Wijmenga, C.\*, Franke, L.\*, Nolte, I.M.\*, Vonk, J.M.\*, Kumar, A.\*, Farrall, M.\*, Cookson, W.O.\*, Strachan, D.P.\*, Koppelman, G.H.\*, Boezen, H.M.\*: Novel childhood asthma genes interact with *in utero* and early-life tobacco smoke exposure. *J. Allergy Clin. Immunol.* 133, 885–888 (2014) [published online 2013]

Scholz, B.A., Harth-Hertle, M.L., Malterer, G.\*, Haas, J.\*, Ellwart, J., Schulz, T.F.\*, Kempkes, B.: Abortive lytic reactivation of KSHV in CBF1/CSL deficient human B cell lines. *PLoS Pathog.* **9**:e1003336 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Schöne, C., Höfler, H., Walch, A.K.: MALDI imaging mass spectrometry in cancer research: Combining proteomic profiling and histological evaluation. *Clin. Biochem.* **46**, 539-545 (2013)

Schröder, C.\*, Srinivasan, H.\*, Sill, M.\*, Linseisen, J., Fellenberg, K.\*, Becker, N.\*, Nieters, A.\*, Hoheisel, J.D.\*: Plasma protein analysis of patients with different B-cell lymphomas using high-content antibody microarrays. *Proteomics Clin. Appl.* **7**, 802-812 (2013)

Schulz, H., Flexeder, C., Behr, J.\*, Heier, M., Holle, R., Huber, R.M.\*, Jörres, R.A.\*, Nowak, D.\*, Peters, A., Wichmann, H.-E., Heinrich, J., Karrasch, S.\*: Reference values of impulse oscillometric lung function indices in adults of advanced age. *PLoS ONE* **8**:e63366 (2013)

Schulz, M., Brandner, S., Eberhagen, C., Eckardt-Schupp, F., Larsen, M.R.\*, Andrae, U.: Quantitative phosphoproteomic analysis of early alterations in protein phosphorylation by 2,3,7,8-tetrachlorodibenzo-*p*-dioxin. *J. Proteome Res.* **12**, 866-882 (2013)

Schulz, S., Schmitt, S., Wimmer, R.\*, Aichler, M., Eisenhofer, S., Lichtmannegger, J., Eberhagen, C., Artmann, R.\*, Toókos, F., Walch, A.K., Krappmann, D., Brenner-Jan, C.\*, Rust, C.\*, Zischka, H.: Progressive stages of mitochondrial destruction caused by cell toxic bile salts. *Biochim. Biophys. Acta-Biomembr.* **1828**, 2121-2133 (2013)

Schuster, C.\*, Kirchner, M., Jakobi, G., Menzel, A.\*: Frequency of inversions affects senescence phenology of *Acer pseudoplatanus* and *Fagus sylvatica*. *Int. J. Biometeorol.*, DOI:10.1007/s00484-013-0709-0 (2013)

Schwab, F.\*, Schleede, S.\*, Hahn, D.\*, Bech, M.\*, Herzen, J.\*, Auweter, S.\*, Bamberg, F.\*, Achterhold, K.\*, Yildirim, A.Ö., Bohla, A., Eickelberg, O., Loewen, R.\*, Gifford, M.\*, Ruth, R.\*, Reiser, M.F.\*, Nikolaou, K.\*, Pfeiffer, F.\*, Meinel, F.G.\*: Vergleich des Kontrast-zu-Rausch-Verhältnisses von Transmissions- und Dunkelfeld-Signal in der gitterbasierten Röntgenbildgebung für gesunde Mäuselungen. *Z. Med. Phys.* **23**, 236-242 (2013)

Schwab, S., Heier, M., Schneider, A.E., Fischer, B.\*, Huth, C., Peters, A., Thorand, B.: The use of dietary supplements among older persons in Southern Germany - results from the KORA-age study. *J. Nutr. Health Aging*, DOI:10.1007/s12603-013-0418-8 (2013)

Schwarzkopf, L., Menn, P., Leidl, R., Gräßel, E.\*, Holle, R.: Are community-living and institutionalized dementia patients cared for differently? Evidence on service utilization and costs of care from German insurance claims data. *BMC Health Serv. Res.* **13**:2 (2013)

Seckmeyer, G.\*, Schrempf, M.\*, Wieczorek, A.\*, Riechelmann, S.\*, Graw, K.\*, Seckmeyer, S.\*, Zankl, M.: A novel method to calculate solar UV exposure relevant to vitamin D production in humans. *Photochem. Photobiol.* **89**, 974-983 (2013)

Serpi, R., Klein-Rodewald, T., Calzada-Wack, J., Neff, F., Schuster, T.\*, Gailus-Durner, V., Fuchs, H., Poutanen, M.\*, Hrabé de Angelis, M., Esposito, I.: Inbred wild type mouse strains have distinct spontaneous morphological phenotypes. *Histol. Histopathol.* **28**, 79-88 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Severin, F., Schmidtke, J.\*, Mühlbacher, A.\*, Rogowski, W.H.: Eliciting preferences for priority setting in genetic testing: A pilot study comparing best-worst scaling and discrete-choice experiments. *Eur. J. Hum. Genet.* **21**, 1202-1208 (2013)

Shang, Y., Zhu, T.\*, Lenz, A.-G., Frankenberger, B., Tian, F.\*, Chen, C.\*, Stoeger, T.: Reduced *in vitro* toxicity of fine particulate matter collected during the 2008 summer Olympic Games in Beijing: The roles of chemical and biological components. *Toxicol. Vitro* **27**, 2084-2093 (2013)

Shishkina, E.A.\*, Tolstykh, E.I.\*, Verdi, E., Volchkova, A.Y.\*, Veronese, I.\*, El-Faramawy, N.A., Göksu, H.Y., Degteva, M.O.\*: Concentrations of <sup>90</sup>Sr in the tooth tissues 60 years after intake: Results of TL measurements and applications for Techa River dosimetry. *Radiat. Environ. Biophys.* **53**, 159-173 (2014) [published online 2013]

Sickinger, S., Payne, K.\*, Rogowski, W.H.: Probleme und Methoden der Gesundheitsökonomie: Personalisierte Medizin als Sonderfall? *Ethik Med.* **25**, 267-275 (2013)

Siegert, S.\*, Yu, Z., Wang-Sattler, R., Illig, T., Adamski, J., Hampe, J.\*, Nikolaus, S.\*, Schreiber, S.\*, Krawczak, M.\*, Nothnagel, M.\*, Nöthlings, U.\*: Diagnosing fatty liver disease: A comparative evaluation of metabolic markers, phenotypes, genotypes and established biomarkers. *PLoS ONE* **8**:e76813 (2013)

Siegler, V.D., Bruß, V.: Role of transmembrane domains of hepatitis B virus small surface proteins in subviral-particle biogenesis. *J. Virol.* **87**, 1491-1496 (2013)

Sim, X.\*, Jensen, R.A.\*, Ikram, M.K.\*, Cotch, M.F.\*, Li, X.\*, MacGregor, S.\*, Xie, J.\*, Smith, A.V.\*, Boerwinkle, E.\*, Mitchell, P.\*, Klein, R.\*, Klein, B.E.\*, Glazer, N.L.\*, Lumley, T.\*, McKnight, B.\*, Psaty, B.M.\*, de Jong, P.T.\*, Hofman, A.\*, Rivadeneira, F.\*, Uitterlinden, A.G.\*, van Duijn, C.M.\*, Aspelund, T.\*, Eiriksdottir, G.\*, Harris, T.B.\*, Jonasson, F.\*, Launer, L.J.\*, Wellcome Trust Case Control Consortium 2 (WTCCC2), Attia, J.\*, Baird, P.N.\*, Harrap, S.\*, Holliday, E.G.\*, Inouye, M.\*, Rochtchina, E.\*, Scott, R.J.\*, Viswanathan, A.\*, Global BPgen Consortium (Eyheramendy, S., Döring, A., Gieger, C., Illig, T., Meitinger, T., Pfeufer, A., Wichmann, H.-E.), Li, G.\*, Smith, N.L.\*, Wiggins, K.L.\*, Kuo, J.Z.\*, Taylor, K.D.\*, Hewitt, A.W.\*, Martin, N.G.\*, Montgomery, G.W.\*, Sun, C.\*, Young, T.L.\*, Mackey, D.A.\*, van Zuydam, N.R.\*, Doney, A.S.\*, Palmer, C.N.\*, Morris, A.D.\*, Rotter, J.I.\*, Tai, E.S.\*, Gudnason, V.\*, Vingerling, J.R.\*, Siscovick, D.S.\*, Wang, J.J.\*, Wong, T.Y.\*: Genetic loci for retinal arteriolar microcirculation. *PLoS ONE* 8:e65804 (2013)

Singh, G.M.\*, Danaei, G.\*, Farzadfar, F.\*, Stevens, G.A., Woodward, M.\*, Wormser, D.\*, Kaptoge, S.\*, Whitlock, G.\*, Qiao, Q.\*, Lewington, S.\*, Di Angelantonio, E.\*, Vander Hoorn, S.\*, Lawes, C.M.\*, Ali, M.K.\*, Mozaffarian, D.\*, Ezzati, M.\*, Global Burden of Metabolic Risk Factors of Chronic Diseases Collaborating Group, Asia-Pacific Cohort Studies Collaboration (APCSC), Diabetes Epidemiology Consortium, Collaborative Analysis of Diagnostic Criteria in Europe Consortium, Emerging Risk Factors Collaboration (Döring, A., Meisinger, C.), Prospective Studies Collaboration: The age-specific quantitative effects of metabolic risk factors on cardiovascular diseases and diabetes: A pooled analysis. *PLoS ONE* **8**:e65174 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Siroux, V.\*, Gonzalez, J.R.\*, Bouzigon, E.\*, Curjuric, I.\*, Boudier, A.\*, Imboden, M.\*, Antò, J.M.\*, Gut, I.\*, Jarvis, D.\*, Lathrop, M.\*, Omenaas, E.R.\*, Pin, I.\*, Wjst, M., Demenais, F.\*, Probst-Hensch, N.\*, Kogevinas, M.\*, Kauffmann, F.\*: Genetic heterogeneity of asthma phenotypes identified by a clustering approach. *Eur. Respir. J.* **43**, 439-452 (2013)

Slater, E.P.\*, Fendrich, V.\*, Strauch, K., Rospleszcz, S., Ramaswamy, A.\*, Mätthai, E.\*, Chaloupka, B.\*, Gress, T.M.\*, Langer, P.\*, Bartsch, D.K.\*: LCN2 and TIMP1 as potential serum markers for the early detection of familial pancreatic cancer. *Transl. Oncol.* **6**, 99-103 (2013)

Slotta-Huspenina, J.\*, Wolff, C.\*, Drecoll, E.\*, Feith, M.\*, Bettstetter, M.\*, Malinowsky, K.\*, Bauer, L.\*, Becker, K.\*, Ott, K.\*, Höfler, H., Becker, K.F.\*, Langer, R.\*: A specific expression profile of heat-shock proteins and glucose-regulated proteins is associated with response to neoadjuvant chemotherapy in oesophageal adenocarcinomas. *Br. J. Cancer* **109**, 370-378 (2013)

Sohns, M.\*, Viktorova, E.\*, Amos, C.I.\*, Brennan, P.\*, Fehringer, G.\*, Gaborieau, V.\*, Han, Y.\*, Heinrich, J., Chang-Claude, J.\*, Hung, R.J.\*, Müller-Nurasyid, M., Risch, A.\*, Lewinger, J.P.\*, Thomas, D.C.\*, Bickeböller, H.\*: Empirical hierarchical Bayes approach to gene-environment interactions: Development and application to genome-wide association studies of lung cancer in TRICL. *Genet. Epidemiol.* **37**, 551-559 (2013)

Solovyev, N.\*, Berthele, A.\*, Michalke, B.: Selenium speciation in paired serum and cerebrospinal fluid samples. *Anal. Bioanal. Chem.* **405**, 1875-1884 (2013)

Solymosi, E.A.\*, Kaestle-Gembardt, S.M.\*, Vadász, I.\*, Wang, L.\*, Neye, N.\*, Chupin, C.J.\*, Rozowsky, S.\*, Ruehl, R.\*, Tabuchi, A.\*, Schulz, H., Kapus, A.\*, Morty, R.E.\*, Kuebler, W.M.\*: Chloride transport-driven alveolar fluid secretion is a major contributor to cardiogenic lung edema. *Proc. Natl. Acad. Sci. U.S.A.* **110**, E2308-E2316 (2013)

Soyer, O.U.\*, Akdis, M.\*, Ring, J.\*, Behrendt, H., Crameri, R.\*, Lauener, R.\*, Akdis, C.A.\*: Mechanisms of peripheral tolerance to allergens. *Allergy* **68**, 161-170 (2013)

Sprinzl, M.F., Russo, C., Kittner, J.\*, Allgayer, S., Grambihler, A.\*, Bartsch, B.\*, Weinmann, A.\*, Galle, P.R.\*, Schuchmann, M.\*, Protzer, U., Bauer, T.: Hepatitis B virus-specific T-cell responses during IFN administration in a small cohort of chronic hepatitis B patients under nucleos(t)ide analogue treatment. *J. Viral Hepat.*, DOI:10.1111/jvh.12189 (2013)

Sprinzl, M.F., Reisinger, F., Puschnik, A., Ringelhan, M., Ackermann, K., Hartmann, D.\*, Schiemann, M., Weinmann, A.\*, Galle, P.R.\*, Schuchmann, M.\*, Friess, H.\*, Otto, G.\*, Heikenwälder, M., Protzer, U.: Sorafenib perpetuates cellular anti-cancer effector functions by modulating the cross talk between macrophages and natural killer cells. *Hepatology* **57**, 2358-2368 (2013)

Stahl, F.R.\*, Heller, K.\*, Halle, S.\*, Keyser, K.A.\*, Busche, A.\*, Marquardt, A.\*, Wagner, K.\*, Boelter, J.\*, Bischoff, Y.\*, Kremmer, E., Arens, R.\*, Messerle, M.\*, Forster, R.\*: Nodular inflammatory foci are sites of T cell priming and control of murine cytomegalovirus infection in the neonatal lung. *PLoS Pathog.* **9**:e1003828 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Stargardt, T.\*, Schreyögg, J., Kondofersky, I.: Measuring the relationship between costs and outcomes: The example of acute myocardinal infarction in German hospitals. *Health Econ.*, DOI:10.1002/hec.2941 (2013)

Stark, R.G., Kirchberger, I., Hunger, M., Heier, M., Leidl, R., von Scheidt, W.\*, Meisinger, C., Holle, R.: Improving care of post-infarct patients: Effects of disease management programmes and care according to international guidelines. *Clin. Res. Cardiol.* **103**, 237-245 (2014) [published online 2013]

Steer, C.D.\*, Lattka, E., Koletzko, B.\*, Golding, J.\*, Hibbeln, J.R.\*: Maternal fatty acids in pregnancy, *FADS* polymorphisms, and child intelligence quotient at 8 y of age. *Am. J. Clin. Nutr.* **98**, 1575-1582 (2013)

Steger, B., Milosevic, S., Doessinger, G.\*, Reuther, S.\*, Liepert, A.\*, Braeu, M., Schick, J.\*, Vogt, V.\*, Schuster, F.\*, Kroell, T.\*, Busch, D.H., Borkhardt, A.\*, Kolb, H.-J., Tischer, J.\*, Buhmann, R., Schmetzer, H.: CD4<sup>+</sup>and CD8<sup>+</sup>T-cell reactions against leukemia-associated- or minor-histocompatibility-antigens in AML-patients after allogeneic SCT. *Immunobiology* **219**, 247–260 (2014) [published online 2013]

Steinberger, J.\*, Kontaxis, G.\*, Rancan, C., Skern, T.\*: Comparison of self-processing of foot-and-mouth disease virus leader proteinase and porcine reproductive and respiratory syndrome virus leader proteinase nsp1a. *Virology* **443**, 271-277 (2013)

Stöckl, D., Döring, A., Thorand, B., Heier, M., Peters, A., Lamina, C.\*, Kronenberg, F.\*, Meisinger, C.: Reproductive factors and its association with peripheral arterial disease in women aged 52-81 years: The KORA F4 study. *Atherosclerosis* **228**, 224-229 (2013)

Stöckl, H.\*, Hertlein, L.\*, Himsl, I.\*, Ditsch, N.\*, Blume, C.\*, Hasbargen, U.\*, Friese, K.\*, Stöckl, D.: Acceptance of routine or case-based inquiry for intimate partner violence: A mixed method study. BMC Pregnancy Childbirth 13:77 (2013)

Stollenwerk, B., Gandjour, A.\*, Lüngen, M.\*, Siebert, U.\*: Accounting for increased non-target-disease-specific mortality in decision-analytic screening models for economic evaluation. *Eur. J. Health Econ.* **14**, 1035-1048 (2012)

Stott, B.\*, Lavender, P.\*, Lehmann, S., Pennino, D., Durham, S.\*, Schmidt-Weber, C.B.: Human IL-31 is induced by IL-4 and promotes T<sub>H</sub>2-driven inflammation. *J. Allergy Clin. Immunol.* **132**, 446-454 (2013)

Streibel, T., Mitschke, S., Adam, T., Zimmermann, R.: Time-resolved analysis of the emission of Sidestream Smoke (SSS) from cigarettes during smoking by Photo Ionisation/Time-Of-Flight Mass Spectrometry (PI-TOFMS): Towards a better description of environmental tobacco smoke. *Anal. Bioanal. Chem.* **405**, 7071-7082 (2013)

Strobl, R.\*, Müller, M.\*, Emeny, R., Peters, A., Grill, E.\*: Distribution and determinants of functioning and disability in aged adults - results from the German KORA-Age study. *BMC Public Health* **13**:137 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Su, B.W.\*, Cengizeroglu, A.\*, Farkasova, K.\*, Viola, J.R.\*, Anton, M.\*, Ellwart, J.W., Haase, R.\*, Wagner, E.\*, Ogris, M.\*: Systemic TNFα gene therapy synergizes with liposomal doxorubicine in the treatment of metastatic cancer. *Mol. Ther.* **21**, 300-308 (2013)

Summerer, I., Niyazi, M.\*, Unger, K., Pitea, A., Zangen, V., Hess, J., Atkinson, M.J., Belka, C., Mörtl, S., Zitzelsberger, H.F.: Changes in circulating microRNAs after radiochemotherapy in head and neck cancer patients. *Radiat. Oncol.* **8**:296 (2013)

Sun, N., Walch, A.K.: Qualitative and quantitative mass spectrometry imaging of drugs and metabolites in tissue at therapeutic levels. *Histochem. Cell Biol.* **140**, 93-104 (2013)

Suzuki, K., Adigüzel, D., Shinotsuka, T.\*, Ishibashi, R.\*, Eguchi, I.\*, Oshima, H.\*, Taniguchi, R.\*, Thalhammer, S., Takeda, K.\*: Tunable plasma lipoprotein uptake/transport across the blood-brain barrier. *Colloid Surf. A-Physicochem. Eng. Asp.* **442**, 157–163 (2014) [published online 2013]

Szymczak, W., Rozman, J., Höllriegl, V., Kistler, M., Keller, S., Peters, D., Kneipp, M., Schulz, H., Hoeschen, C., Klingenspor, M.\*, Hrabé de Angelis, M.: Online breath gas analysis in unrestrained mice by hs-PTR-MS. *Mamm. Genome*, DOI:10.1007/s00335-013-9493-8 (2013)

Tabassum, R.\*, Chauhan, G.\*, Dwivedi, O.P.\*, Mahajan, A.\*, Jaiswal, A.\*, Kaur, I.\*, Bandesh, K.\*, Singh, T.\*, Mathai, B.J.\*, Pandey, Y.\*, Chidambaram, M.\*, Sharma, A.\*, Chavali, S.\*, Sengupta, S.\*, Ramakrishnan, L.\*, Venkatesh, P.\*, Aggarwal, S.K.\*, Ghosh, S.\*, Prabhakaran, D.\*, Srinath, R.K.\*, Saxena, M.\*, Banerjee, M.\*, Mathur, S.\*, Bhansali, A.\*, Shah, V.N.\*, Madhu, S.V.\*, Marwaha, R.K.\*, Basu, A.\*, Scaria, V.\*, McCarthy, M.I.\*, DIAGRAM Consortium (Gieger, C., Grallert, H.H., Huth, C., Illig, T., Klopp, N.B., Meitinger, T., Petersen, A.-K., Thorand, B., Wichmann, H.-E.), INDICO Consortium, Venkatesan, R.\*, Mohan, V.\*, Tandon, N.\*, Bharadwaj, D.\*: Genome-wide association study for type 2 diabetes in Indians identifies a new susceptibility locus at 2q21. *Diabetes* 62, 977-986 (2013)

Tapfer, A.\*, Braren, R.\*, Bech, M.\*, Willner, M.\*, Zanette, I.\*, Weitkamp, T.\*, Trajkovic-Arsic, M.\*, Siveke, J.T.\*, Settles, M.\*, Aichler, M., Walch, A.K., Pfeiffer, F.\*: X-ray phase-contrast CT of a pancreatic ductal adenocarcinoma mouse model. *PLoS ONE* **8**:e58439 (2013)

Tapio, S.: Ionizing radiation effects on cells, organelles and tissues on proteome level. *Adv. Exp. Med. Biol.* **990**, 37-48 (2013)

Teuner, C.M., Menn, P., Heier, M., Holle, R., John, J., Wolfenstetter, S.B.: Impact of BMI and BMI change on future drug expenditures in adults: Results from the MONICA/KORA cohort study. *BMC Health Serv. Res.* **13**:424 (2013)

Thedieck, K.\*, Holzwarth, B.\*, Prentzell, M.T.\*, Boehlke, C.\*, Klasener, K.\*, Ruf, S.\*, Sonntag, A.G.\*, Maerz, L.\*, Grellscheid, S.N.\*, Kremmer, E., Nitschke, R.\*, Kuehn, E.W.\*, Jonker, J.W.\*, Groen, A.K.\*, Reth, M.\*, Hall, M.N.\*, Baumeister, R.\*: Inhibition of mTORC1 by astrin and stress granules prevents apoptosis in cancer cells. *Cell* **154**, 859-874 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Thiering, E., Cyrys, J., Kratzsch, J.\*, Meisinger, C., Hoffmann, B.\*, Berdel, D.\*, von Berg, A.\*, Koletzko, S.\*, Bauer, C.P.\*, Heinrich, J.: Long-term exposure to traffic-related air pollution and insulin resistance in children: Results from the GINIplus and LISAplus birth cohorts. *Diabetologia* **56**, 1696-1704 (2013)

Thomae, A.W.\*, Schade, G.O.\*, Padeken, J.\*, Borath, M.\*, Vetter, I.\*, Kremmer, E., Heun, P.\*, Imhof, A.\*: A pair of centromeric proteins mediates reproductive isolation in *Drosophila* species. *Dev. Cell* **27**, 412-424 (2013)

Thorgeirsson, T.E.\*, Gudbjartsson, D.F.\*, Sulem, P.\*, Besenbacher, S.\*, Styrkarsdottir, U.\*, Thorleifsson, G.\*, Walters, G.B.\*, TAG Consortium, Oxford-GSK Consortium (Heinrich, J., Lamina, C.), ENGAGE Consortium (Wichmann, H.-E., Döring, A, Rawal, R., Nitz, B., Gieger, C.), Furberg, H.\*, Sullivan, P.F.\*, Marchini, J.\*, McCarthy, M.I.\*, Steinthorsdottir, V.\*, Thorsteinsdottir, U.\*, Stefansson, K.\*: A common biological basis of obesity and nicotine addiction. *Transl. Psychiatry* 3:e308 (2013)

Thun, G.A.\*, Imboden, M.\*, Ferrarotti, I.\*, Kumar, A.\*, Obeidat, M.\*, Zorzetto, M.\*, Haun, M.\*, Curjuric, I.\*, Couto Alves, A.\*, Jackson, V.E.\*, Albrecht, E., Ried, J.S., Teumer, A.\*, Lopez, L.M.\*, Huffman, J.E.\*, Enroth, S.\*, Bossé, Y.\*, Hao, K.\*, Timens, W.\*, Gyllensten, U.\*, Polasek, O.\*, Wilson, J.F.\*, Rudan, I.\*, Hayward, C.\*, Sandford, A.J.\*, Deary, I.J.\*, Koch, B.\*, Reischl, E., Schulz, H., Hui, J.\*, James, A.L.\*, Rochat, T.\*, Russi, E.W.\*, Jarvelin, M.R.\*, Strachan, D.P.\*, Hall, I.P.\*, Tobin, M.D.\*, Dahl, M.\*, Fallgaard Nielsen, S.\*, Nordestgaard, B.G.\*, Kronenberg, F.\*, Luisetti, M.\*, Probst-Hensch, N.M.\*: Causal and synthetic associations of variants in the *SERPINA* gene cluster with alpha1-antitrypsin serum levels. *PLoS Genet.* **9**:e1003585 (2013)

Tian, F., Habel, N.C., Yin, R., Hirn, S., Banerjee, A.\*, Ercal, N.\*, Takenaka, S., Estrada, G.\*, Kostarelos, K.\*, Kreyling, W., Stoeger, T.: Pulmonary DWCNT exposure causes sustained local and low-level systemic inflammatory changes in mice. *Eur. J. Pharm. Biopharm.* **84**, 412-420 (2013)

Tiemann, O., Schreyögg, J.: Changes in hospital efficiency after privatization. *Health Care Manag. Sci.* **15**, 310-326 (2012)

Tiesler, C.M.T., Birk, M., Thiering, E., Kohlböck, G., Koletzko, S.\*, Bauer, C.P.\*, Berdel, D.\*, von Berg, A.\*, Babisch, W.\*, Heinrich, J.: Exposure to road traffic noise and children's behavioural problems and sleep disturbance: Results from the GINIplus and LISAplus studies. *Environ. Res.* **123**, 1-8 (2013)

Tiesler, C.M.T., Birk, M., Kohlböck, G., Koletzko, S.\*, Bauer, C.-P.\*, Wichmann, H.-E., von Berg, A.\*, Berdel, D.\*, Krämer, U.\*, Schaaf, B.\*, Lehmann, I.\*, Herbarth, O.\*, Heinrich, J.: Residential mobility and behavioural problems in children: Results from the GINIplus and LISAplus studies. *J. Public Health* **21**, 39-48 (2013)

Tischer, C.G., Gref, A.\*, Standl, M., Bauer, M.\*, Bergström, A.\*, Brauer, M.\*, Carlsten, C.\*, Gehring, U.\*, Granell, R.\*, Henderson, J.\*, Kerkhof, M.\*, Macnutt, M.\*, Melén, E.\*, Wickman, M.\*, Heinrich, J.: *Glutathione-S-transferase P1*, early exposure to mould in relation to respiratory and allergic health outcomes in children from six birth cohorts. A meta-analysis. *Allergy* **68**, 339-346 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Tischer, C.G., Heinrich, J.: Exposure assessment of residential mould, fungi and microbial components in relation to children's health: Achievements and challenges. *Int. J. Hyg. Environ. Health.* **216**, 109-114 (2013)

Tobwala, S.\*, Fan, W.\*, Stöger, T., Ercal, N.\*: N-acetylcysteine amide, a thiol antioxidant, prevents bleomycin-induced toxicity in human alveolar basal epithelial cells (A549). *Free Radic. Res.* **47**, 740-749 (2013)

Tomenson, B.\*, Essau, C.\*, Jacobi, F.\*, Ladwig, K.-H., Leiknes, K.A.\*, Lieb, R.\*, Meinlschmidt, G.\*, McBeth, J.\*, Rosmalen, J.\*, Rief, W.\*, Sumathipala, A.\*, Creed, F.\*, EURASMUS Population Based Study Group: Total somatic symptom score as a predictor of health outcome in somatic symptom disorders. *Br. J. Psychiatry* **203**, 373-380 (2013)

Tozzi, F.\*, Teumer, A.\*, Munafò, M.\*, Rawal, R., Kazeem, G.\*, Gerbaulet, M.\*, McArdle, W.\*, Chilcoat, H.\*, Döring, A., Dahmen, N.\*, Mooser, V.\*, Nauck, M.\*, Ring, S.M.\*, Rubio, J.P.\*, Vollenweider, P.\*, Waeber, G.\*, John, U.\*, Völzke, H.\*, Homuth, G.\*, Freyberger, H.J.\*, Völker, U.\*, Davey-Smith, G.\*, Gieger, C., Preisig, M.\*, Grabe, H.J.\*: A genomewide association study of smoking relapse in four European population-based samples. *Psychiatr. Genet.* **23**, 143-152 (2013)

Tracy, B.L.\*, Carini, F.\*, Barabash, S.\*, Berkovskyy, V.\*, Brittain, J.E.\*, Chouhan, S.\*, Eleftheriou, G.\*, Iosjpe, M.\*, Monte, L.\*, Psaltaki, M.\*, Shen, J.\*, Tschiersch, J., Turcanu, C.\*: The sensitivity of different environments to radioactive contamination. *J. Environ. Radioact.* **122**, 1-8 (2013)

Trefz, P.\*, Schmidt, M.\*, Oertel, P.\*, Obermeier, J.\*, Brock, B.\*, Kamysek, S.\*, Dunkl, J.\*, Zimmermann, R., Schubert, J.K.\*, Miekisch, W.\*: Continuous real time breath gas monitoring in the clinical environment by proton-transfer-reaction-time-of-flight-mass spectrometry. *Anal. Chem.* **85**, 10321-10329 (2013)

Tschöp-Lechner, K.E.\*, Milani, V.\*, Berger, F.\*, Dieterle, N.\*, Abdel-Rahman, S.\*, Salat, C.\*, Issels, R.D.: Gemcitabine and cisplatin combined with regional hyperthermia as second-line treatment in patients with gemcitabine-refractory advanced pancreatic cancer. *Int. J. Hyperthermia* **29**, 8-16 (2013)

Turchin, M.C.\*, Chiang, C.W.\*, Palmer, C.D.\*, Sankararaman, S.\*, Reich, D.\*, GIANT Consortium (Heid, I.M., Thiering, E., Gieger, C., Grallert, H.H., Heinrich, J., Illig, T., Peters, A., Wichmann, H.-E.), Hirschhorn, J.N.\*: Evidence of widespread selection on standing variation in Europe at height-associated SNPs. *Nat. Genet.* **44**, 1015-1019 (2012)

Unger, K.: Integrative radiation systems biology. Radiat. Oncol. 9:21 (2014) [published online 2013]

Urso, L., Kaiser, J.C., Woda, C., Helebrant, J.\*, Hulka, J.\*, Kuca, P.\*, Prouza, Z.\*: A fast and simple approach for the estimation of a radiological source from localised measurements after the explosion of a radiological dispersal device. *Radiat. Prot. Dosim.* **158**, 453-460 (2014) [published online 2013]

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

van der Loos, M.J.\*, Rietveld, C.A.\*, Eklund, N.\*, Koellinger, P.D.\*, Rivadeneira, F.\*, Abecasis, G.R.\*, Ankra-Badu, G.A.\*, Baumeister, S.E.\*, Benjamin, D.J.\*, Biffar, R.\*, Blankenberg, S.\*, Boomsma, D.I.\*, Cesarini, D.\*, Cucca, F.\*, de Geus, E.J.\*, Dedoussis, G.\*, Deloukas, P.\*, Dimitriou, M.\*, Eiriksdottir, G.\*, Eriksson, J.\*, Gieger, C., Gudnason, V.\*, Höhne, B., Holle, R., Hottenga, J.J.\*, Isaacs, A.\*, Jarvelin, M.R.\*, Johannesson, M.\*, Kaakinen, M.\*, Kähönen, M.\*, Kanoni, S.\*, Laaksonen, M.A.\*, Lahti, J.\*, Launer, L.J.\*, Lehtimäki, T.\*, Loitfelder, M.\*, Magnusson, P.K.\*, Naitza, S.\*, Oostra, B.A.\*, Perola, M.\*, Petrovic, K.\*, Quaye, L.\*, Raitakari, O.\*, Ripatti, S.\*, Scheet, P.\*, Schlessinger, D.\*, Schmidt, C.O.\*, Schmidt, H.\*, Schmidt, R.\*, Senft, A.\*, Smith, A.V.\*, Spector, T.D.\*, Surakka, I.\*, Svento, R.\*, Terracciano, A.\*, Tikkanen, E.\*, van Duijn, C.M.\*, Viikari, J.\*, Völzke, H.\*, Wichmann, H.-E., Wild, P.S.\*, Willems, S.M.\*, Willemsen, G.\*, van Rooij, F.J.\*, Groenen, P.J.\*, Uitterlinden, A.G.\*, Hofman, A.\*, Thurik, A.R.\*: The molecular genetic architecture of self-employment. *PLoS ONE* 8:e60542 (2013)

van der Valk, R.J.\*, Duijts, L.\*, Timpson, N.J.\*, Salam, M.T.\*, Standl, M., Curtin, J.A.\*, Genuneit, J.\*, Kerhof, M.\*, Kreiner-Møller, E.\*, Cáceres, A.\*, Gref, A.\*, Liang, L.L.\*, Taal, H.R.\*, Bouzigon, E.\*, Demenais, F.\*, Nadif, R.\*, Ober, C.\*, Thompson, E.E.\*, Estrada, K.\*, Hofman, A.\*, Uitterlinden, A.G.\*, van Duijn, C.\*, Rivadeneira, F.\*, Li, X.\*, Eckel, S.P.\*, Berhane, K.\*, Gauderman, W.J.\*, Granell, R.\*, Evans, D.M.\*, St Pourcain, B.\*, McArdle, W.\*, Kemp, J.P.\*, Smith, G.D.\*, Tiesler, C.M., Flexeder, C., Simpson, A.\*, Murray, C.S.\*, Fuchs, O.\*, Postma, D.S.\*, Bønnelykke, K.\*, Torrent, M.\*, Andersson, M.\*, Sleiman, P.M.\*, Hakonarson, H.\*, Cookson, W.O.\*, Moffatt, M.F.\*, Paternoster, L.\*, Melén, E.\*, Sunyer, J.\*, Bisgaard, H.\*, Koppelman, G.H.\*, Ege, M.\*, Custovic, A.\*, Heinrich, J., Gilliland, F.D.\*, Henderson, A.J.\*, Jaddoe, V.W.\*, de Jongste, J.C.\*, The EUMODIC Consortium: Fraction of exhaled nitric oxide values in childhood are associated with 17q11.2-q12 and 17q12-q21 variants. *J. Allergy Clin. Immunol.*, DOI:10.1016/j.jaci.2013.08.053 (2013)

van Hemelrijck, M.\*, Michaelsson, K.\*, Linseisen, J., Rohrmann, S.\*: Calcium intake and serum concentration in relation to risk of cardiovascular death in NHANES III. *PLoS ONE* **8**:e61037 (2013)

van Houwelingen, C.\*, Baumert, J., Kerkhof, A.\*, Beersma, D.\*, Ladwig, K.-H.: Train suicide mortality and availability of trains: A tale of two countries. *Psychiatry Res.* **209**, 466-470 (2013)

van Nuffel, A.\*, Ariën, K.K.\*, Stove, V.\*, Schindler, M., O'Neill, E.\*, Schmökel, J.\*, Van de Walle, I.\*, Naessens, E.\*, Vanderstraeten, H.\*, van Landeghem, K.\*, Taghon, T.\*, Pulkkinen, K.\*, Saksela, K.\*, Garcia, J.V.\*, Fackler, O.T.\*, Kirchhoff, F.\*, Verhasselt, B.\*: Primate lentiviral Nef proteins deregulate T-cell development by multiple mechanisms. *Retrovirology* **10**:137 (2013)

Vereide, D.T.\*, Seto, E., Chiu, Y.F.\*, Hayes, M.\*, Tagawa, T., Grundhoff, A.\*, Hammerschmidt, W., Sugden, B.\*: Epstein-Barr virus maintains lymphomas via its miRNAs. *Oncogene*, DOI:10.1038/onc.2013.71 (2013)

Verheugd, P.\*, Forst, A.H.\*, Milke, L.\*, Herzog, N.\*, Feijs, K.L.H.\*, Kremmer, E., Kleine, H.\*, Lüscher, B.\*: Regulation of NF-κB signalling by the mono-ADP-ribosyltransferase ARTD10. *Nat. Commun.* **4**:1683 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Verhoeven, V.J.M.\*, Hysi, P.G.\*, Wojciechowski, R.\*, Fan, Q.\*, Guggenheim, J.A.\*, Höhn, R.\*, Macgregor, S.\*, Hewitt, A.W.\*, Nag, A.\*, Cheng, C.Y.\*, Yonova-Doing, E.\*, Zhou, X.\*, Ikram, M.K.\*, Buitendijk, G.H.S.\*, McMahon, G.\*, Kemp, J.P.\*, St Pourcain, B.\*, Simpson, C.L.\*, Mäkelä, K.M.\*, Lehtimäki, T.\*, Kähönen, M.\*, Paterson, A.D.\*, Hosseini, S.M.\*, Wong, H.S.\*, Xu, L.\*, Jonas, J.B.\*, Pärssinen, O.\*, Wedenoja, J.\*, Yip, S.P.\*, Ho, D.W.H.\*, Pang, C.P.\*, Chen, L.J.\*, Burdon, K.P.\*, Craig, J.E.\*, Klein, B.E.K.\*, Klein, R.\*, Haller, T.\*, Metspalu, A.\*, Khor, C.C.\*, Tai, E.S.\*, Aung, T.\*, Vithana, E.\*, Tay, W.T.\*, Barathi, V.A.\*, Chen, P.\*, Li, R.Y.\*, Liao, J.M.\*, Zheng, Y.F.\*, Ong, R.T.\*, Döring, A., Evans, D.M.\*, Timpson, N.J.\*, Verkerk, A.J.M.H.\*, Meitinger, T.\*, Raitakari, O.\*, Hawthorne, F.\*, Spector, T.D.\*, Karssen, L.C.\*, Pirastu, M.\*, Murgia, F.\*, Ang, W.\*, Mishra, A.\*, Montgomery, G.W.\*, Pennell, C.E.\*, Cumberland, P.M.\*, Cotlarciuc, I.\*, Mitchell, P.\*, Wang, J.J.\*, Schache, M.\*, Janmahasathian, S.\*, Igo, R.P.\*, Lass, J.H.\*, Chew, E.\*, Iyengar, S.K.\*, Gorgels, T.G.M.F.\*, Rudan, I.\*, Hayward, C.\*, Wright, A.F.\*, Polasek, O.\*, Vatavuk, Z.\*, Wilson, J.F.\*, Fleck, B.\*, Zeller, T.\*, Mirshahi, A.\*, Müller, C.\*, Uitterlinden, A.G., Rivadeneira, F.\*, Vingerling, J.R.\*, Hofman, A.\*, Oostra, B.\*, Amin, N.\*, Bergen, A.A.B.\*, Teo, Y.Y.\*, Rahi, J.S.\*, Vitart, V.\*, Williams, C.\*, Baird, P.N.\*, Wong, T.Y.\*, Oexle, K.\*, Pfeiffer, N.\*, Mackey, D.A.\*, Young, T.L.\*, van Duijn, C.M.\*, Saw, S.M.\*, Bailey-Wilson, J.E.\*, Stambolian, D.\*, Klaver, C.C.\*, Hammond, C.J.\*: Genomewide meta-analyses of multiancestry cohorts identify multiple new susceptibility loci for refractive error and myopia. Nat. Genet. 45, 314-318 (2013)

Vidy, A.\*, Sacher, T.\*, Adler, H., Jordan, S.\*, Koszinowski, U.H.\*, Ruzsics, Z.\*: Systemic and local infection routes govern different cellular dissemination pathways during gammaherpesvirus infection *in vivo. J. Virol.* **87**, 4596-4608 (2013)

Vimaleswaran, K.S.\*, Berry, D.J.\*, Lu, C.\*, Tikkanen, E.\*, Pilz, S.\*, Hiraki, L.T.\*, Cooper, J.D.\*, Dastani, Z.\*, Li, R.\*, Houston, D.K.\*, Wood, A.R.\*, Michaelsson, K.\*, Vandenput, L.\*, Zgaga, L.\*, Yerges-Armstrong, L.M.\*, McCarthy, M.I.\*, Dupuis, J.\*, Kaakinen, M.\*, Kleber, M.E.\*, Jameson, K.\*, Arden, N.\*, Raitakari, O.\*, Viikari, J.\*, Lohman, K.K.\*, Ferrucci, L.\*, Melhus, H.\*, Ingelsson, E.\*, Byberg, L.\*, Lind, L.\*, Lorentzon, M.\*, Salomaa, V.\*, Campbell, H.\*, Dunlop, M.\*, Mitchell, B.D.\*, Herzig, K.H.\*, Pouta, A.\*, Hartikainen, A.L.\*, GIANT Consortium (Heid, I.M., Gieger, C., Wichmann, H.-E., Grallert, H.H., Illig, T., Peters, A., Heinrich, J., Thiering, E.), Streeten, E.A.\*, Theodoratou, E.\*, Jula, A.\*, Wareham, N.J.\*, Ohlsson, C.\*, Frayling, T.M.\*, Kritchevsky, S.B.\*, Spector, T.D.\*, Richards, J.B.\*, Lehtimäki, T.\*, Ouwehand, W.H.\*, Kraft, P.\*, Cooper, C.\*, Marz, W.\*, Power, C.\*, Loos, R.J.\*, Wang, T.J.\*, Jarvelin, M.R.\*, Whittaker, J.C.\*, Hingorani, A.D.\*, Hyppönen, E.\*: Causal relationship between obesity and vitamin D status: Bi-directional Mendelian randomization analysis of multiple cohorts. *PLoS Med.* **10**:e1001383 (2013)

Vincendeau, M., Nagel, D., Brenke, J.K., Brack-Werner, R., Hadian, K.: Heterogenous nuclear ribonucleoprotein Q increases protein expression from HIV-1 Rev-dependent transcripts. *Virol. J.* **10**:151 (2013)

Vinceti, M.\*, Solovyev, N., Mandrioli, J.\*, Crespi, C.M.\*, Bonvicini, F.\*, Arcolin, E.\*, Georgoulopoulou, E.\*, Michalke, B.: Cerebrospinal fluid of newly diagnosed amyotrophic lateral sclerosis patients exhibits abnormal levels of selenium species including elevated selenite. *Neurotoxicology* **38**, 25-32 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Vinceti, M.\*, Mandrioli, J.\*, Borella, P.\*, Michalke, B., Tsatsakis, A.\*, Finkelstein, Y.\*: Selenium neurotoxicity in humans: Bridging laboratory and epidemiologic studies. *Toxicol. Lett.*, DOI:10.1016/j.toxlet.2013.11.016 (2013)

Vogel, B., Schunk, M., Lack, N.\*, Mielck, A.: Ermittlung von Stadtgebieten mit hohem Bedarf an Frühen Hilfen in München: Vorstellung eines neuen Verfahrens auf Basis von Daten zur regionalen Sozialstruktur und zum gesundheitlichen Risiko von Neugeborenen. *Gesundheitswesen* **75**, 131-138 (2013)

Vogel, K.U., Edelmann, S.L., Jeltsch, K.M., Bertossi, A.\*, Heger, K.\*, Heinz, G.A., Zöller, J., Warth, S.C., Hoefig, K.P., Lohs, C., Neff, F., Kremmer, E., Schick, J., Repsilber, D.\*, Geerlof, A., Blum, H.\*, Wurst, W., Heikenwälder, M., Schmidt-Supprian, M.\*, Heissmeyer, V.: Roquin paralogs 1 and 2 redundantly repress the Icos and Ox40 costimulator mRNAs and control follicular helper T cell differentiation. *Immunity* **38**, 655-668 (2013)

Vogl, M.: Improving patient-level costing in the English and the German 'DRG' system. *Health Policy* **109**, 290-300 (2013)

Volckmar, A.-L.\*, Bolze, F.\*, Jarick, I.\*, Knoll, N.\*, Scherag, A.\*, Reinehr, T.\*, Illig, T., Grallert, H.H., Wichmann, H.-E., Wiegand, S.\*, Biebermann, H.\*, Krude, H.\*, Fischer-Posovszky, P.\*, Rief, W.\*, Wabitsch, M.\*, Klingenspor, M.\*, Hebebrand, J.\*, Hinney, A.\*: Mutation screen in the GWAS derived obesity gene *SH2B1* including functional analyses of detected variants. *BMC Med. Genomics* **5**:65 (2012)

von Berg, A.\*, Filipiak-Pittroff, B.\*, Krämer, U.\*, Hoffmann, B.\*, Link, E.\*, Beckmann, C.\*, Hoffmann, U., Reinhardt, D.\*, Grubl, A.\*, Heinrich, J., Wichmann, H.-E., Bauer, C.P.\*, Koletzko, S.\*, Berdel, D.\*: Allergies in high-risk schoolchildren after early intervention with cow's milk protein hydrolysates: 10-year results from the German Infant Nutritional Intervention (GINI) study. *J. Allergy Clin. Immunol.* **131**, 1565-1573 (2013)

von Eisenhart Rothe, A., Bielitzer, M.\*, Meinertz, T.\*, Limbourg, T.\*, Ladwig, K.-H., Goette, A.\*: Predictors of discordance between physicians' and patients' appraisals of health-related quality of life in atrial fibrillation patients: Findings from the angiotensin II antagonist in paroxysmal atrial fibrillation trial. *Am. Heart J.* **166**, 589-596 (2013)

Vucur, M.\*, Reisinger, F., Gautheron, J.\*, Janssen, J.\*, Roderburg, C.\*, Cardenas, D.V.\*, Kreggenwinkel, K.\*, Koppe, C.\*, Hammerich, L.\*, Hakem, R.\*, Unger, K., Weber, A.\*, Gassler, N.\*, Luedde, M.\*, Frey, N.\*, Neumann, U.P.\*, Tacke, F.\*, Trautwein, C.\*, Heikenwälder, M., Luedde, T.\*: RIP3 inhibits inflammatory hepatocarcinogenesis but promotes cholestasis by controlling caspase-8- and JNK-dependent compensatory cell proliferation. *Cell Reports* **4**, 776-790 (2013)

Wabitsch, M.\*, Moss, A.\*, Reinehr, T.\*, Wiegand, S.\*, Kiess, W.\*, Scherag, A.\*, Höll, R.\*, Holle, R., Hebebrand, J.\*: Medical and psychosocial implications of adolescent extreme obesity - acceptance and effects of structured care short: Youth with Extreme Obesity Study (YES). *BMC Public Health* **13**:789 (2013)

German Research Center for Environmental Health

### **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Wachter, F., Grunert, M., Blaj, C., Weinstock, D.M.\*, Jeremias, I., Ehrhardt, H.: Impact of the p53 status of tumor cells on extrinsic and intrinsic apoptosis signaling. *Cell Commun. Signal.* **11**:27 (2013)

Wacker, M., Holle, R., Heinrich, J., Ladwig, K.-H., Peters, A., Leidl, R., Menn, P.: The association of smoking status with healthcare utilisation, productivity loss and resulting costs: Results from the population-based KORA F4 study. *BMC Health Serv. Res.* **13**:278 (2013)

Wagner, F.M.\*, Brizic, I.\*, Prager, A.\*, Trsan, T.\*, Arapovic, M.\*, Lemmermann, N.A.W.\*, Podlech, J.\*, Reddehase, M.J.\*, Lemnitzer, F.\*, Bosse, J.B.\*, Gimpfl, M.\*, Marcinowski, L.\*, MacDonald, M.\*, Adler, H., Koszinowski, U.H.\*, Adler, B.\*: The viral chemokine MCK-2 of murine cytomegalovirus promotes infection as part of a gH/gL/MCK-2 complex. *PLoS Pathog.* **9**:e1003493 (2013)

Wahl, S., Krug, S., Then, C., Kirchhofer, A., Kastenmüller, G., Brand, T., Skurk, T.\*, Claussnitzer, M.\*, Huth, C., Heier, M., Meisinger, C., Peters, A., Thorand, B., Gieger, C., Prehn, C., Römisch-Margl, W., Adamski, J., Suhre, K., Illig, T., Grallert, H.H., Laumen, H., Seissler, J., Hauner, H.: Comparative analysis of plasma metabolomics response to metabolic challenge tests in healthy subjects and influence of the FTO obesity risk allele. *Metabolomics*, DOI:10.1007/s11306-013-0586-x (2013)

Wahl, S., Holzapfel, C., Yu, Z., Breier, M., Kondofersky, I., Fuchs, C., Singmann, P., Prehn, C., Adamski, J., Grallert, H.H., Illig, T., Wang-Sattler, R., Reinehr, T.\*: Metabolomics reveals determinants of weight loss during lifestyle intervention in obese children. *Metabolomics* **9**, 1157-1167 (2013)

Waldmann, E.\*, Kneib, T.\*, Yue, Y.R.\*, Lang, S.\*, Flexeder, C.: Bayesian semiparametric additive quantile regression. *Stat. Model.* **13**, 223-252 (2013)

Walker, C.G.\*, Holzapfel, C., Loos, R.J.\*, Mander, A.P.\*, Klopp, N.B.\*, Illig, T.\*, Caterson, I.D.\*, Hauner, H.\*, Jebb, S.A.\*: Genetic predisposition to an adverse lipid profile limits the improvement in total cholesterol in response to weight loss. *Obesity* **21**, 2589-2595 (2013)

Walser-Domjan, E.\*, Richard, A.\*, Eichholzer, M.\*, Platz, E.A.\*, Linseisen, J., Rohrmann, S.\*: Association of urinary phytoestrogen concentrations with serum concentrations of prostate-specific antigen in the National Health and Nutrition Examination Survey. *Nutr. Cancer* **65**, 813-819 (2013)

Walter, U.\*, Gold, C.\*, Hoffmann, W.\*, Jahn, I.\*, Töppich, J.\*, Wildner, M.\*, Dubben, S.\*, Franze, M.\*, John, J., Kliche, T.\*, Lehmann, H.\*, Naegele, G.\*, Nöcker, G.\*, Plaumann, M.\*, Pott, E.\*, Robra, B.P.\*: Memorandum - Forschungsförderung Prävention. *Gesundheitswesen* **74**, 526-532 (2012)

Wang, J., Meisenberg, O., Chen, Y.H.\*, Bi, L., Tschiersch, J.: Mitigation of thoron exposure by application of wallpaper as a diffusion barrier. *Radiat. Prot. Dosim.* **152**, 94-97 (2012)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Wang, M.\*, Beelen, R.\*, Basagana, X.\*, Becker, T.\*, Cesaroni, G.\*, de Hoogh, K.\*, Dedele, A.\*, Declercq, C.\*, Dimakopoulou, K.\*, Eeftens, M.\*, Forastiere, F.\*, Galassi, C.\*, Grazuleviciene, R.\*, Hoffmann, B.\*, Heinrich, J., Iakovides, M.\*, Künzli, N.\*, Korek, M.\*, Lindley, S.\*, Mölter, A.\*, Mosler, G.\*, Madsen, C.\*, Nieuwenhuijsen, M.\*, Phuleria, H.\*, Pedeli, X.\*, Raaschou-Nielsen, O.\*, Ranzi, A.\*, Stephanou, E.\*, Sugiri, D.\*, Stempfelet, M.\*, Tsai, M.Y.\*, Lanki, T.\*, Udvardy, O.\*, Varró, M.J.\*, Wolf, K., Weinmayr, G.\*, Yli-Tuomi, T.\*, Hoek, G.\*, Brunekreef, B.\*: Evaluation of land use regression models for NO<sub>2</sub> and particulate matter in 20 European study areas: The ESCAPE project. *Environ. Sci. Technol.* **47**, 4357-4364 (2013)

Weidinger, S.\*, Willis-Owen, S.A.\*, Kamatani, Y.\*, Baurecht, H.\*, Morar, N.\*, Liang, L.\*, Edser, P.\*, Street, T.\*, Rodriguez, E.\*, O'Regan, G.M.\*, Beattie, P.\*, Fölster-Holst, R.\*, Franke, A.\*, Novak, N.\*, Fahy, C.M.\*, Winge, M.C.G.\*, Kabesch, M.\*, Illig, T., Heath, S.\*, Söderhäll, C.\*, Melén, E.\*, Pershagen, G.\*, Kere, J.\*, Bradley, M.\*, Liedén, A.\*, Nordenskjöld, M.\*, Harper, J.I.\*, McLean, W.H.\*, Brown, S.J.\*, Cookson, W.O.\*, Lathrop, G.M.\*, Irvine, A.D.\*, Moffatt, M.F.\*: A genome-wide association study of atopic dermatitis identifies loci with overlapping effects on asthma and psoriasis. *Hum. Mol. Genet.* **22**, 4841-4856 (2013)

Wen, W.\*, Cho, Y.S.\*, Zheng, W.\*, Dorajoo, R.\*, Kato, N.\*, Qi, L.\*, Chen, C.H.\*, Delahanty, R.J.\*, Okada, Y.\*, Tabara, Y.\*, Gu, D.\*, Zhu, D.\*, Haiman, C.A.\*, Mo, Z.\*, Gao, Y.T.\*, Saw, S.M.\*, Go, M.J.\*, Takeuchi, F.\*, Chang, L.C.\*, Kokubo, Y.\*, Liang, J.\*, Hao, M.\*, Le Marchand, L.\*, Zhang, Y.\*, Hu, Y.\*, Wong, T.Y.\*, Long, J.\*, Han, B.G.\*, Kubo, M.\*, Yamamoto, K.\*, Su, M.H.\*, Miki, T.\*, Henderson, B.E.\*, Song, H.\*, Tan, A.\*, He, J.\*, Ng, D.P.\*, Cai, Q.\*, Tsunoda, T.\*, Tsai, F.J.\*, Iwai, N.\*, Chen, G.K.\*, Shi, J.\*, Xu, J.\*, Sim, X.\*, Xiang, Y.B.\*, Maeda, S.\*, Ong, R.T.\*, Li, C.\*, Nakamura, Y.\*, Aung, T.\*, Kamatani, N.\*, Liu, J.J.\*, Lu, W.\*, Yokota, M.\*, Seielstad, M.\*, Fann, C.S.\*, GIANT Consortium (Heid, I.M., Thiering, E., Gieger, C., Grallert, H.H., Heinrich, J., Illig, T., Peters, A., Wichmann, H.-E.), Wu, J.Y.\*, Lee, J.Y.\*, Hu, F.B.\*, Tanaka, T.\*, Tai, E.S.\*, Shu, X.O.\*: Metanalysis identifies common variants associated with body mass index in east Asians. *Nat. Genet.* 44, 307-311 (2012)

Wende, R.\*, von Klot, S., Kirchberger, I., Kuch, B.\*, von Scheidt, W.\*, Peters, A., Meisinger, C.: The influence of lunar phases on the occurrence of myocardial infarction: Fact or myth? The MONICA/KORA myocardial infarction registry. *Eur. J. Prev. Cardiol.* **20**, 268-274 (2013)

Wildgruber, M.\*, Bielicki, I.\*, Aichler, M.Y., Kosanke, K.\*, Feuchtinger, A., Settles, M.\*, Onthank, D.C.\*, Cesati, R.R.\*, Robinson, S.P.\*, Huber, A.M.\*, Rummeny, E.J.\*, Walch, A.K., Botnar, R.M.\*: Assessment of myocardial infarction and post-infarction scar remodeling with an elastin-specific magnetic resonance agent. *Circ.-Cardiovasc. Imaging*, DOI:10.1161/CIRCIMAGING.113.001270 (2013)

Windheim, M.\*, Southcombe, J.H.\*, Kremmer, E., Chaplin, L.\*, Urlaub, D.\*, Falk, C.S.\*, Claus, M.\*, Mihm, J.\*, Braithwaite, M.\*, Dennehy, K.\*, Renz, H.\*, Sester, M.\*, Watzl, C.\*, Burgert, H.G.\*: A unique secreted adenovirus E3 protein binds to the leukocyte common antigen CD45 and modulates leukocyte functions. *Proc. Natl. Acad. Sci. U.S.A.* **110**, E4884-E4893 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Wittmaack, K.: Comprehensive modelling of secondary-ion energy spectra measured with a magnetic sector field instrument: I. Concept and basic features. *Int. J. Mass Spectrom.* **359**, 55–63 (2014) [published online 2013]

Wittmaack, K.: Unravelling the secrets of Cs controlled secondary ion formation: Evidence of the dominance of site specific surface chemistry, alloying and ionic bonding. *Surf. Sci. Rep.* **68**, 108-230 (2013)

Woellmer, A., Hammerschmidt, W.: Epstein-Barr virus and host cell methylation: Regulation of latency, replication and virus reactivation. *Curr. Opin. Virol.* **3**, 260-265 (2013)

Wohlfahrt, S., Fischer, M., Saraji-Bozorgzad, M.\*, Matuschek, G., Streibel, T.\*, Post, E.\*, Denner, T.\*, Zimmermann, R.: Rapid comprehensive characterization of crude oils by thermogravimetry coupled to fast modulated gas chromatography-single photon ionization time-of-flight mass spectrometry. *Anal. Bioanal. Chem.* **405**, 7107-7116 (2013)

Wohn, C.\*, Ober-Blöbaum, J.L.\*, Haak, S., Pantelyushin, S.\*, Cheong, C.\*, Zahner, S.P.\*, Onderwater, S.\*, Kant, M.\*, Weighardt, H.\*, Holzmann, B.\*, Reizis, B.\*, Becher, B.\*, Prens, E.P.\*, Clausen, B.E.\*: Langerin<sup>neg</sup> conventional dendritic cells produce IL-23 to drive psoriatic plaque formation in mice. *Proc. Natl. Acad. Sci. U.S.A.* **110**, 10723-10728 (2013)

Wolf, A., Mantri, M.\*, Heim, A.\*, Müller, U.\*, Fichter, E.\*, Mackeen, M.M.\*, Schermelleh, L.\*, Dadie, G.\*, Leonhardt, H.\*, Vénien-Bryan, C.\*, Kessler, B.M.\*, Schofield, C.J.\*, Böttger, A.\*: The polyserine domain of the lysyl-5 hydroxylase Jmjd6 mediates subnuclear localization. *Biochem. J.* **453**, 357-370 (2013)

Wortmann, M.\*, Schneider, M.\*, Pircher, J.\*, Hellfritsch, J.\*, Aichler, M., Vegi, N.\*, Koelle, P.\*, Kuhlencordt, P.\*, Walch, A.K., Pohl, U.\*, Bornkamm, G.W., Conrad, M., Beck, H.\*: Combined deficiency in glutathione peroxidase 4 and vitamin E causes multi-organ thrombus formation and early death in mice. *Circ. Res.* **113**, 408-417 (2013)

Wredenberg, A.\*, Lagouge, M.\*, Bratic, A.\*, Metodiev, M.D.\*, Spåhr, H.\*, Mourier, A.\*, Freyer, C.\*, Ruzzenente, B.\*, Tain, L.\*, Grönke, S.\*, Baggio, F.\*, Kukat, C.\*, Kremmer, E., Wibom, R.\*, Polosa, P.L.\*, Habermann, B.\*, Partridge, L.\*, Park, C.B.\*, Larsson, N.G.\*: MTERF3 regulates mitochondrial ribosome biogenesis in invertebrates and mammals. *PLoS Genet.* **9**:e1003178 (2013)

Wyler, L.\*, Napoli, C.U.\*, Ingold, B.\*, Sulser, T.\*, Heikenwälder, M., Schraml, P.\*, Moch, H.\*: Brain metastasis in renal cancer patients: Metastatic pattern, tumour-associated macrophages and chemokine/chemoreceptor expression. *Br. J. Cancer* **110**, 686–694 (2014) [published online 2013]

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Xie, W.\*, Wood, A.R.\*, Lyssenko, V.\*, Weedon, M.N.\*, Knowles, J.W.\*, Alkayyali, S.\*, Assimes, T.L.\*, Quertermous, T.\*, Abbasi, F.\*, Paananen, J.\*, Häring, H.-U., Hansen, T.\*, Pedersen, O.\*, Smith, U.\*, Laakso, M.\*, MAGIC Investigators (Gieger, C., Wichmann, H.-E., Grallert, H.H., Thorand, B., Illig, T., Meisinger, C.), DIAGRAM Consortium (Huth, C., Grallert, H.H., Meitinger, T., Gieger, C., Wichmann, H.-E., Illig, T., Thorand, B., Petersen, A.-K., Klopp, N.B.), GENESIS Consortium, RISC Consortium, Dekker, J.M.\*, Nolan, J.J.\*, Groop, L.\*, Ferrannini, E.\*, Adam, K.P.\*, Gall, W.E.\*, Frayling, T.M.\*, Walker, M.\*: Genetic variants associated with glycine metabolism and their role in insulin sensitivity and type 2 diabetes. *Diabetes* 62, 2141-2150 (2013)

Xu, M.M.\*, Jia, Y.P.\*, Li, G.X.\*, Liu, L.Q., Mo, Y.Z.\*, Jin, X.B.\*, Pan, X.C.\*: Relationship between ambient fine particles and ventricular repolarization changes and heart rate variability of elderly people with heart disease in Beijing, China. *Biomed. Environ. Sci.* **26**, 629-637 (2013)

Xu, T., Holzapfel, C., Dong, X.\*, Bader, E., Yu, Z., Prehn, C., Perstorfer, K., Jaremek, M., Römisch-Margl, W., Rathmann, W.\*, Li, Y.\*, Wichmann, H.-E., Wallaschofski, H.\*, Ladwig, K.-H., Theis, F.J., Suhre, K., Adamski, J., Illig, T., Peters, A., Wang-Sattler, R.: Effects of smoking and smoking cessation on human serum metabolite profile: Results from the KORA cohort study. *BMC Med.* 11:60 (2013)

Yang, T., Chen, Z.-Z.\*, Kolb, H.-J., Buhmann, R.: A novel nonradioactive CFDA assay to monitor the cellular immune response in myeloid leukemia. *Immunobiology* **218**, 548-553 (2013)

Yaroshenko, A.\*, Meinel, F.G.\*, Bech, M.\*, Tapfer, A.\*, Velroyen, A.\*, Schleede, S.\*, Auweter, S.\*, Bohla, A., Yildirim, A.Ö., Nikolaou, K.\*, Bamberg, F.\*, Eickelberg, O., Reiser, M.F.\*, Pfeiffer, F.\*: Pulmonary emphysema diagnosis with a preclinical small-animal X-ray dark-field scatter-contrast scanner. *Radiology* **269**, 426-432 (2013)

Yentrapalli, R., Azimzadeh, O., Barjaktarovic, Z., Sarioglu, H., Wojcik, A.\*, Harms-Ringdahl, M.\*, Atkinson, M.J., Haghdoost, S.\*, Tapio, S.: Quantitative proteomic analysis reveals induction of premature senescence in human umbilical vein endothelial cells exposed to chronic low-dose rate gamma radiation. *Proteomics* **13**, 1096-1107 (2013)

Yentrapalli, R., Azimzadeh, O., Sriharshan, A., Malinowsky, K.\*, Merl, J., Wojcik, A.\*, Harms-Ringdahl, M.\*, Atkinson, M.J., Becker, K.-F.\*, Haghdoost, S.\*, Tapio, S.: The PI3K/Akt/mTOR pathway is implicated in the premature senescence of primary human endothelial cells exposed to chronic radiation. *PLoS ONE* **8**:e70024 (2013)

Zebhauser, A., Hofmann-Xu, L., Baumert, J., Häfner, S., Lacruz, M.E., Emeny, R.T., Döring, A., Grill, E.\*, Huber, D.\*, Peters, A., Ladwig, K.-H.: How much does it hurt to be lonely? Mental and physical differences between older men and women in the KORA-Age study. *Int. J. Geriatr. Psychiatr.* **29**, 245–252 (2014) [published online 2013]

Zeilinger, S., Kühnel, B., Klopp, N., Baurecht, H.\*, Kleinschmidt, A., Gieger, C., Weidinger, S.\*, Lattka, E., Adamski, J., Peters, A., Strauch, K., Waldenberger, M., Illig, T.: Tobacco smoking leads to extensive genome-wide changes in DNA methylation. *PLoS ONE* **8**:e63812 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-01-01

\* external authors are starred

#### **Environmental Health**

Zhang, D.\*, Cagnon, C.H.\*, Villablanca, J.P.\*, McCollough, C.H.\*, Cody, D.D.\*, Zankl, M., DeMarco, J.J.\*, McNitt-Gray, M.F.\*: Estimating peak skin and eye lens dose from neuroperfusion examinations: Use of Monte Carlo based simulations and comparisons to CTDI<sub>vol</sub>, AAPM Report No. 111, and ImPACT dosimetry tool values. *Med. Phys.* **40**:091901 (2013)

Zhao, Y.\*, Bao, Q.\*, Schwarz, B.\*, Zhao, L.\*, Mysliwietz, J., Ellwart, J.W., Renner, A.\*, Hirner, H.\*, Niess, H.\*, Camaj, P.\*, Angele, M.\*, Gros, S.\*, Izbicki, J.\*, Jauch, K.W.\*, Nelson, P.J.\*, Bruns, C.J.\*: Stem cell-like side populations in esophageal cancer: A source of chemotherapy resistance and metastases. *Stem Cells Dev.* **23**, 180-192 (2014) [published online 2013]

Zhou, Q.H.\*, Haupt, S.\*, Prots, I.\*, Thummler, K.\*, Kremmer, E., Lipsky, P.E.\*, Schulze-Koops, H.\*, Skapenko, A.\*: miR-142-3p is involved in CD25<sup>+</sup> CD4 T cell proliferation by targeting the expression of glycoprotein A repetitions predominant. *J. Immunol.* **190**, 6579-6588 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

Achenbach, P., Hummel, M.\*, Thümer, L.\*, Boerschmann, H.\*, Höfelmann, D., Ziegler, A.-G.: Characteristics of rapid vs slow progression to type 1 diabetes in multiple islet autoantibody-positive children. *Diabetologia* **56**, 1615-1622 (2013)

Adams, D.\*, Baldock, R.\*, Bhattacharya, S.\*, Copp, A.J.\*, Dickinson, M.\*, Greene, N.D.E.\*, Henkelmann, M.\*, Justice, M.\*, Mohun, T.\*, Murray, S.A.\*, Pauws, E.\*, Raess, M., Rossant, J.\*, Weaver, T.\*, West, D.\*: Bloomsbury report on mouse embryo phenotyping: Recommendations from the IMPC workshop on embryonic lethal screening. *Dis. Model. Mech.* **6**, 571-579 (2013)

Agarwal, V.\*, Linser, R.\*, Dasari, M., Fink, U.\*, Lopez del Amo, J.M., Reif, B.: Hydrogen bonding involving side chain exchangeable groups stabilizes amyloid quarternary structure. *Phys. Chem. Phys.* **15**, 12551-12557 (2013)

Agoston, Z.\*, Heine, P.\*, Brill, M.S., Grebbin, B.M.\*, Hau, A.C.\*, Kallenborn-Gerhardt, W.\*, Schramm, J.\*, Götz, M., Schulte, D.\*: Meis2 is a Pax6 co-factor in neurogenesis and dopaminergic periglomerular fate specification in the adult olfactory bulb. *Development* **141**, 28-38 (2013)

Ahmad, N., Aslam, M.\*, Münster, D., Horsch, M., Khan, M.A., Carlsson, P.\*, Beckers, J., Graw, J.: Pitx3 directly regulates *Foxe3* during early lens development. *Int. J. Dev. Biol.* **57**, 741-751 (2013)

Ale, A., Siebenhaar, F.\*, Kosanke, K.\*, Aichler, M.Y., Radrich, K., Heydrich, S.\*, Schiemann, M., Bielicki, I.\*, Noel, P.B.\*, Braren, R.\*, Maurer, M.\*, Walch, A.K., Rummeny, E.J.\*, Ntziachristos, V., Wildgruber, M.\*: Cardioprotective C-kit<sup>+</sup> bone marrow cells attenuate apoptosis after acute myocardial infarction in mice – *in-vivo* assessment with fluorescence molecular imaging. *Theranostics* **3**, 903-913 (2013)

Ale, A., Ermolayev, V., Deliolanis, N.C., Ntziachristos, V.: Fluorescence background subtraction technique for hybrid fluorescence molecular tomography/X-ray computed tomography imaging of a mouse model of early stage lung cancer. *J. Biomed. Opt.* **18**:56006 (2013)

Alessio, N.\*, Bohn, W.\*, Rauchberger, V.\*, Rizzolio, F.\*, Cipollaro, M.\*, Rosemann, M., Irmler, I., Beckers, J., Giordano, A.\*, Galderisi, U.\*: Silencing of RB1 but not of RB2/P130 induces cellular senescence and impairs the differentiation potential of human mesenchymal stem cells. *Cell. Mol. Life Sci.* **70**, 1637-1651 (2013)

Allebrandt, K.V.\*, Amin, N.\*, Müller-Myhsok, B.\*, Esko, T.\*, Teder-Laving, M.\*, Azevedo, R.V.\*, Hayward, C.\*, van Mill, J.\*, Vogelzangs, N.\*, Green, E.W.\*, Melville, S.A.\*, Lichtner, P., Wichmann, H.-E., Oostra, B.A.\*, Janssens, A.C.\*, Campbell, H.\*, Wilson, J.F.\*, Hicks, A.A.\*, Pramstaller, P.P.\*, Dogas, Z.\*, Rudan, I.\*, Merrow, M.\*, Penninx, B.\*, Kyriacou, C.P.\*, Metspalu, A.\*, van Duijn, C.M.\*, Meitinger, T., Roenneberg, T.\*: A K<sub>ATP</sub> channel gene effect on sleep duration: From genome-wide association studies to function in *Drosophila*. *Mol. Psychiatry* **18**, 122-132 (2013)

Andréasson, C.\*, Schick, A.J.\*, Pfeiffer, S.M., Sarov, M.\*, Stewart, F.\*, Wurst, W., Schick, J.A.: Direct cloning of isogenic murine DNA in yeast and relevance of isogenicity for targeting in embryonic stem cells. *PLoS ONE* **8**:e74207 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

Andres, C.\*, Hasenauer, J., Ahn, H.S.\*, Joseph, E.K.\*, Isensee, J.\*, Theis, F.J., Allgöwer, F.\*, Levine, J.D.\*, Dib-Hajj, S.D.\*, Waxman, S.G.\*, Hucho, T.\*: Wound-healing growth factor, basic FGF, induces Erk1/2-dependent mechanical hyperalgesia. *Pain* **154**, 2216-2226 (2013)

Anttila, V.\*, Winsvold, B.S.\*, Gormley, P.\*, Kurth, T.\*, Bettella, F.\*, McMahon, G.\*, Kallela, M.\*, Malik, R.\*, de Vries, B.\*, Terwindt, G.\*, Medland, S.E.\*, Todt, U.\*, McArdle, W.L.\*, Quaye, L.\*, Koiranen, M.\*, Ikram, M.A.\*, Lehtimäki, T.\*, Stam, A.H.\*, Ligthart, L.\*, Wedenoja, J.\*, Dunham, I.\*, Neale, B.M.\*, Palta, P.\*, Hämäläinen, E.\*, Schürks, M.\*, Rose, L.M.\*, Buring, J.E.\*, Ridker, P.M.\*, Steinberg, S.\*, Stefansson, H.\*, Jakobsson, F.\*, Lawlor, D.A.\*, Evans, D.M.\*, Ring, S.M.\*, Färkkilä, M.\*, Artto, V.\*, Kaunisto, M.A.\*, Freilinger, T.\*, Schoenen, J.\*, Frants, R.R.\*, Pelzer, N.\*, Weller, C.M.\*, Zielman, R.\*, Heath, A.C.\*, Madden, P.A.\*, Montgomery, G.W.\*, Martin, N.G.\*, Borck, G.\*, Göbel, H.\*, Heinze, A.\*, Heinze-Kuhn, K.\*, Williams, F.M.\*, Hartikainen, A.L.\*, Pouta, A.\*, van den Ende, J.\*, Uitterlinden, A.G.\*, Hofman, A.\*, Amin, N.\*, Hottenga, J.J.\*, Vink, J.M.\*, Heikkilä, K.\*, Alexander, M.\*, Müller-Myhsok, B.\*, Schreiber, S.\*, Meitinger, T., Wichmann, H.-E., Aromaa, A.\*, Eriksson, J.G.\*, Traynor, B.J.\*, Trabzuni, D.\*, North American Brain Expression Consortium, UK Brain Expression Consortium, Rossin, E.\*, Lage, K.\*, Jacobs, S.B.\*, Gibbs, J.R.\*, Birney, E.\*, Kaprio, J.\*, Penninx, B.W.\*, Boomsma, D.I.\*, van Duijn, C.\*, Raitakari, O.\*, Jarvelin, M.R.\*, Zwart, J.A.\*, Cherkas, L.\*, Strachan, D.P.\*, Kubisch, C.\*, Ferrari, M.D.\*, van den Maagdenberg, A.M.\*, Dichgans, M.\*, Wessman, M.\*, Smith, G.D.\*, Stefansson, K.\*, Daly, M.J.\*, International Headache Genetics Consortium, Nyholt, D.R.\*, Chasman, D.I.\*, Palotie, A.\*: Genome-wide meta-analysis identifies new susceptibility loci for migraine. Nat. Genet. 45, 912-917 (2013)

Appolloni, I.\*, Calzolari, F., Barilari, M.\*, Terrile, M.\*, Daga, A.\*, Malatesta, P.\*: Antagonistic modulation of gliomagenesis by *Pax6* and *Olig2* in PDGF-induced oligodendroglioma. *Int. J. Cancer* **131**, E1078-E1087 (2012)

Araque Caballero, M.A.\*, Gateau, J.\*, Déan-Ben, X.-L., Ntziachristos, V.: Model-based optoacoustic image reconstruction of large three-dimensional tomographic datasets acquired with an array of directional detectors. *IEEE Trans. Med. Imaging* **33**, 433-443 (2013)

Asam, D.\*, Mauerer, S.\*, Walheim, E., Spellerberg, B.\*: Identification of β-haemolysin-encoding genes in *Streptococcus anginosus. Mol. Oral Microbiol.* **28**, 302-315 (2013)

Asami, S., Rakwalska-Bange, M.\*, Carlomagno, T.\*, Reif, B.: Protein-RNA interfaces probed by <sup>1</sup>H-detected MAS solid-state NMR spectroscopy. *Angew. Chem.-Int. Edit.* **52**, 2345-2349 (2013)

Asami, S., Reif, B.: Proton-detected solid-state NMR spectroscopy at aliphatic sites: Application to crystalline systems. *Acc. Chem. Res.* **46**, 2089-2097 (2013)

Asciutto, G.\*, Edsfeldt, A.\*, Dias, N.V.\*, Nilsson, J.\*, Prehn, C., Adamski, J., Gonçalves, I.\*: Treatment with beta-blockers is associated with lower levels of Lp-PLA2 and suPAR in carotid plaques. *Cardiovasc. Pathol.* **22**, 438-443 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

Auer-Grumbach, M.\*, Bode, H.\*, Pieber, T.R.\*, Schabhüttl, M.\*, Fischer, D.\*, Seidl, R.\*, Graf, E., Wieland, T., Schuh, R.\*, Vacariu, G.\*, Grill, F.\*, Timmerman, V.\*, Strom, T.-M., Hornemann, T.\*: Mutations at Ser331 in the HSN type I gene SPTLC1 are associated with a distinct syndromic phenotype. *Eur. J. Med. Genet.* **56**, 266-269 (2013)

Awa, W.L.\*, Boehm, B.O.\*, Rosinger, S.\*, Achenbach, P., Ziegler, A.-G., Krause, S., Meissner, T.\*, Wiegand, S.\*, Reinehr, T.\*, Kapellen, T.\*, Karges, B.\*, Eiermann, T.\*, Schober, E.\*, Holl, R.W.\*: HLA-typing, clinical, and immunological characterization of youth with type 2 diabetes mellitus phenotype from the German/Austrian DPV database. *Pediatr. Diabetes* **14**, 562-574 (2013)

Bachoc, C.\*, Ehler, M.: Tight p-fusion frames. Appl. Comput. Harmon. Anal. 35, 1-15 (2013)

Bakhti, M., Aggarwal, S.\*, Simons, M.\*: Myelin architecture: Zippering membranes tightly together. *Cell. Mol. Life Sci.*, DOI:10.1007/s00018-013-1492-0 (2013)

Bannik, K., Rössler, U.\*, Faus-Keßler, T., Gomolka, M.\*, Hornhardt, S.\*, Dalke, C., Klymenko, O., Rosemann, M., Trott, K.-R.\*, Atkinson, M., Kulka, U.\*, Graw, J.: Are mouse lens epithelial cells more sensitive to γ-irradiation than lymphocytes? *Radiat. Environ. Biophys.* **52**, 279-286 (2013)

Bardehle, S., Krüger, M.\*, Buggenthin, F., Schwausch, J., Ninkovic, J., Clevers, H.\*, Snippert, H.J.\*, Theis, F.J., Meyer-Luehmann, M.\*, Bechmann, I.\*, Dimou, L., Götz, M.: Live imaging of astrocyte responses to acute injury reveals selective juxtavascular proliferation. *Nat. Neurosci.* **16**, 580-586 (2013)

Baruffini, E.\*, Dallabona, C.\*, Invernizzi, F.\*, Yarham, J.W.\*, Melchionda, L.\*, Blakely, E.L.\*, Lamantea, E.\*, Donnini, C.\*, Santra, S.\*, Vijayaraghavan, S.\*, Roper, H.P.\*, Burlina, A.\*, Kopajtich, R., Walther, A., Strom, T.-M., Haack, T.B., Prokisch, H., Taylor, R.W.\*, Ferrero, I.\*, Zeviani, M.\*, Ghezzi, D.\*: *MTO1* mutations are associated with hypertrophic cardiomyopathy and lactic acidosis and cause respiratory chain deficiency in humans and yeast. *Hum. Mutat.* **34**, 1501-1509 (2013)

Bay, E., Douplik, A.\*, Razansky, D.: Optoacoustic monitoring of cutting efficiency and thermal damage during laser ablation. *Lasers Med. Sci.*, DOI:10.1007/s10103-013-1434-y (2013)

Beatson, R.K.\*, zu Castell, W., Xu, Y.\*: A Pólya criterion for (strict) positive-definiteness on the sphere. *IMA J. Numer. Anal.*, DOI:10.1093/imanum/drt008 (2013)

Benedict, C.\*, Barclay, J.L.\*, Ott, V.\*, Oster, H.\*, Hallschmid, M.: Acute sleep deprivation delays the glucagon-like peptide 1 peak response to breakfast in healthy men. *Nutr. Diabetes* **3**:e78 (2013)

Beryozkin, A.\*, Zelinger, L.\*, Bandah-Rozenfeld, D.\*, Harel, A.\*, Strom, T.-M., Merin, S.\*, Chowers, I.\*, Banin, E.\*, Sharon, D.\*: Mutations in *CRB1* are a relatively common cause of autosomal recessive early-onset retinal degeneration in the Israeli and Palestinian populations. *Invest. Ophthalmol. Vis. Sci.* **54**, 2068-2075 (2013)

Besong Agbo, D.\*, Klafki, H.\*, Poschmann, G.\*, Genius, J.\*, Janßen, C.\*, Stühler, K.\*, Wurst, W., Meyer, H.E.\*, Klingenspor, M.\*, Wiltfang, J.\*: Development of a capillary isoelectric focusing immunoassay to measure DJ-1 isoforms in biological samples. *Anal. Biochem.* **443**, 197-204 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

Beuschlein, F.\*, Boulkroun, S.\*, Osswald, A.\*, Wieland, T., Nielsen, H.N.\*, Lichtenauer, U.D.\*, Penton, D.\*, Schack, V.R.\*, Amar, L.\*, Fischer, E.\*, Walther, A., Tauber, P.\*, Schwarzmayr, T., Diener, S., Graf, E., Allolio, B.\*, Samson-Couterie, B.\*, Benecke, A.\*, Quinkler, M.\*, Fallo, F.\*, Plouin, P.F.\*, Mantero, F.\*, Meitinger, T., Mulatero, P.\*, Jeunemaitre, X.\*, Warth, R.\*, Vilsen, B.\*, Zennaro, M.C.\*, Strom, T.-M., Reincke, M.\*: Somatic mutations in *ATP1A1* and *ATP2B3* lead to aldosterone-producing adenomas and secondary hypertension. *Nat. Genet.* **45**, 440-444 (2013)

Beyerlein, A., Kusian, D., Ziegler, A.-G., Schaffrath-Rosario, A.\*, von Kries, R.\*: Classification tree analyses reveal limited potential for early targeted prevention against childhood overweight. *Obesity* **22**, 512–517 (2014) [published online 2013]

Beyerlein, A., Wehweck, F., Ziegler, A.-G., Pflüger, M.: Respiratory infections in early life and the development of islet autoimmunity in children at increased type 1 diabetes risk: Evidence from the BABYDIET study. *JAMA Pediatr.* **167**, 800-807 (2013)

Bezzina, C.R.\*, Barc, J.\*, Mizusawa, Y.\*, Remme, C.A.\*, Gourraud, J.B.\*, Simonet, F.\*, Verkerk, A.O.\*, Schwartz, P.J.\*, Crotti, L., Dagradi, F.\*, Guicheney, P.\*, Fressart, V.\*, Leenhardt, A.\*, Antzelevitch, C.\*, Bartkowiak, S.\*, Schulze-Bahr, E.\*, Zumhagen, S.\*, Behr, E.R.\*, Bastiaenen, R.\*, Tfelt-Hansen, J.\*, Olesen, M.S.\*, Kääb, S.\*, Beckmann, B.M.\*, Weeke, P.\*, Watanabe, H.\*, Endo, N.\*, Minamino, T.\*, Horie, M.\*, Ohno, S.\*, Hasegawa, K.\*, Makita, N.\*, Nogami, A.\*, Shimizu, W.\*, Aiba, T.\*, Froguel, P.\*, Balkau, B.\*, Lantieri, O.\*, Torchio, M.\*, Wiese, C.\*, Weber, D.\*, Wolswinkel, R.\*, Coronel, R.\*, Boukens, B.J.\*, Bézieau, S.\*, Charpentier, E.\*, Chatel, S.\*, Despres, A.\*, Gros, F.\*, Kyndt, F.\*, Lecointe, S.\*, Lindenbaum, P.\*, Portero, V.\*, Violleau, J.\*, Gessler, M.\*, Tan, H.L.\*, Roden, D.M.\*, Christoffels, V.M.\*, Marec, H.L.\*, Wilde, A.A.\*, Probst, V.\*, Schott, J.J.\*, Dina, C.\*, Redon, R.\*: Common variants at *SCN5A-SCN10A* and *HEY2* are associated with Brugada syndrome, a rare disease with high risk of sudden cardiac death. *Nat. Genet.* **45**, 1044-1049 (2013)

Bielohuby, M.\*, Kampe, J., Tschöp, M.H., Pfluger, P.T.: Hypothalamische Entzündung und metabolisches Syndrom. *Diabetologe* **9**, 455-462 (2013)

Bielohuby, M.\*, Sisley, S.\*, Sandoval, D.A.\*, Herbach, N.\*, Zengin, A.\*, Fischereder, M.\*, Menhofer, D.\*, Stoehr, B.J.\*, Stemmer, K., Wanke, R.\*, Tschöp, M.H., Seeley, R.J.\*, Bidlingmaier, M.\*: Impaired glucose tolerance in rats fed low-carbohydrate, high-fat diets. *Am. J. Physiol. Endocrinol. Metab.* **305**, E1059-E1070 (2013)

Bista, M.\*, Wolf, S.\*, Khoury, K.\*, Kowalska, K.\*, Huang, Y.\*, Wrona, E.\*, Arciniega, M.\*, Popowicz, G.M.\*, Holak, T.A.\*, Dömling, A.\*: Transient protein states in designing inhibitors of the MDM2-p53 interaction. *Structure* **21**, 2143–2151 (2013)

Bleves, S.\*, Dunger, I., Walter, M.C., Frangoulidis, D.\*, Kastenmüller, G., Voulhoux, R.\*, Ruepp, A.: HoPaCI-DB: Host-*Pseudomonas* and *Coxiella* interaction database. *Nucleic Acids Res.* **42**, D671-D676 (2014) [published online 2013]

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

Blohm, P., Frishman, G., Smialowski, P., Goebels, F.\*, Wachinger, B., Ruepp, A., Frishman, D.: Negatome 2.0: A database of non-interacting proteins derived by literature mining, manual annotation and protein structure analysis. *Nucleic Acids Res.* **42**, D396-D400 (2014) [published online 2013]

Bonifacio, E.\*, Krumsiek, J., Winkler, C., Theis, F.J., Ziegler, A.-G.: A strategy to find gene combinations that identify children who progress rapidly to type 1 diabetes after islet autoantibody seroconversion. *Acta Diabetol.*, DOI:10.1007/s00592-013-0526-2 (2013)

Bosello-Travain, V.\*, Conrad, M., Cozza, G.\*, Negro, A.\*, Quartesan, S.\*, Rossetto, M.\*, Roveri, A.\*, Toppo, S.\*, Ursini, F.\*, Zaccarin, M.\*, Maiorino, M.\*: Protein disulfide isomerase and glutathione are alternative substrates in the one Cys catalytic cycle of glutathione peroxidase 7. *Biochim. Biophys. Acta-Gen. Subj.* **1830**, 3846-3857 (2013)

Brandmaier, S., Novotarskyi, S.\*, Sushko, I.\*, Tetko, I.V.: From descriptors to predicted properties: Experimental design by using applicability domain estimation. *ATLA-Altern. Lab. Anim.* **41**, 33-47 (2013)

Bredies, K.\*, Dong, Y., Hintermüller, M.\*: Spatially dependent regularization parameter selection in total generalized variation models for image restoration. *Int. J. Comput. Math.* **90**, 109-123 (2013)

Brockmann, K.\*, Schulte, C.\*, Hauser, A.K.\*, Lichtner, P., Huber, H.\*, Maetzler, W.\*, Berg, D.\*, Gasser, T.\*: SNCA: Major genetic modifier of age at onset of Parkinson's disease. *Mov. Disord.* **28**, 1217-1221 (2013)

Brüggemann, R.\*, Restrepo, G.\*, Voigt, K., Annoni, P.\*: Weighting intervals and ranking, exemplified by leaching potential of pesticides. *Match-Commun. Math. Comput. Chem.* **69**, 413-432 (2013)

Buggenthin, F., Marr, C., Schwarzfischer, M., Hoppe, P.S., Hilsenbeck, O., Schroeder, T., Theis, F.J.: An automatic method for robust and fast cell detection in bright field images from high-throughput microscopy. *BMC Bioinformatics* **14**:297 (2013)

Bühler, A., Kacprowicz, M.\*, Taruttis, A., Ntziachristos, V.: Real-time handheld multispectral optoacoustic imaging. *Opt. Lett.* **38**, 1404-1406 (2013)

Bühler, A., Dean-Ben, X.L., Razansky, D., Ntziachristos, V.: Volumetric optoacoustic imaging with multi-bandwidth deconvolution. *IEEE Trans. Med. Imaging*, DOI:10.1109/TMI.2013.2282173 (2013)

Burton, N.C., Patel, M.\*, Morscher, S., Driessen, W.H.P., Claussen, J., Bézière, N., Jetzfellner, T., Taruttis, A., Razansky, D., Bednar, B.\*, Ntziachristos, V.: Multispectral Opto-Acoustic Tomography (MSOT) of the brain and glioblastoma characterization. *Neuroimage* **65**, 522-528 (2013)

Burtscher, I., Barkey, W., Lickert, H.: Foxa2-venus fusion reporter mouse line allows live-cell analysis of endoderm-derived organ formation. *Genesis* **51**, 596-604 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

Caballero, M.A.A., Rosenthal, A., Bühler, A., Razansky, D., Ntziachristos, V.: Optoacoustic determination of spatio-temporal responses of ultrasound sensors. *IEEE Trans. Ultrason. Ferroelectr. Freq. Control.* **60**, 1234-1244 (2013)

Cai, H.\*, Cong, W.N.\*, Daimon, C.M.\*, Wang, R.\*, Tschöp, M.H., Sévigny, J.\*, Martin, B.\*, Maudsley, S.\*: Altered lipid and salt taste responsivity in ghrelin and GOAT null mice. *PLoS ONE* **8**:e76553 (2013)

Cappello, S., Gray, M.J.\*, Badouel, C.\*, Lange, S., Einsiedler, M., Srour, M.\*, Chitayat, D.\*, Hamdan, F.F.\*, Jenkins, Z.A.\*, Morgan, T.\*, Preitner, N.\*, Uster, T.\*, Thomas, J.\*, Shannon, P.\*, Morrison, V.\*, Di Donato, N.\*, van Maldergem, L.\*, Neuhann, T.\*, Newbury-Ecob, R.\*, Swinkells, M.\*, Terhal, P.\*, Wilson, L.C.\*, Zwijnenburg, P.J.\*, Sutherland-Smith, A.J.\*, Black, M.A.\*, Markie, D.\*, Michaud, J.L.\*, Simpson, M.A.\*, Mansour, S.\*, McNeill, H.\*, Götz, M., Robertson, S.P.\*: Mutations in genes encoding the cadherin receptor-ligand pair DCHS1 and FAT4 disrupt cerebral cortical development. *Nat. Genet.* **45**, 1300-1308 (2013)

Carvalho, A.N.\*, Sonner, S.: Pullback exponential attractors for evolution processes in Banach spaces: Theoretical results. *Commun. Pure Appl. Anal.* **12**, 3047-3071 (2013)

Cassani, S.\*, Kovarich, S.\*, Papa, E.\*, Roy, P.P.\*, Rahmberg, M.\*, Nilsson, S.\*, Sahlin, U.\*, Jeliazkova, N.\*, Kochev, N.\*, Pukalov, O.\*, Tetko, I.V., Brandmaier, S., Durjava, M.K.\*, Kolar, B.\*, Peijnenburg, W.\*, Gramatica, P.\*: Evaluation of CADASTER QSAR models for the aquatic toxicity of (benzo)triazoles and prioritisation by consensus prediction. *ATLA-Altern. Lab. Anim.* **41**, 49-64 (2013)

Castaneda, V.\*, Mateus, D., Navab, N.\*: Stereo time-of-flight with constructive interference. *IEEE Trans. Pattern Anal. Mach. Intell.*, DOI:10.1109/TPAMI.2013.195 (2013)

Castro, C.\*, Krumsiek, J., Lehrbach, N.J.\*, Murfitt, S.A.\*, Miska, E.A.\*, Griffin, J.L.\*: A study of *Caenorhabditis elegans* DAF-2 mutants by metabolomics and differential correlation networks. *Mol. Biosyst.* **9**, 1632-1642 (2013)

Chatenoud, L.\*, Warncke, K., Ziegler, A.-G.: Clinical immunologic interventions for the treatment of type 1 diabetes. *Cold Spring Harbor Perspect. Med.* **2**:a007716 (2012)

Chen, S.L.\*, Hoene, M., Li, J.\*, Li, Y.J.\*, Zhao, X.J.\*, Häring, H.-U., Schleicher, E.D., Weigert, C., Xu, G.W.\*, Lehmann, R.: Simultaneous extraction of metabolome and lipidome with methyl tert-butyl ether from a single small tissue sample for ultra-high performance liquid chromatography/mass spectrometry. *J. Chromatogr. A* **1298**, 9-16 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

Cheng, C.Y.\*, Schache, M.\*, Ikram, M.K.\*, Young, T.L.\*, Guggenheim, J.A.\*, Vitart, V.\*, Macgregor, S.\*, Verhoeven, V.J.M.\*, Barathi, V.A.\*, Liao, J.M.\*, Hysi, P.G.\*, Bailey-Wilson, J.E.\*, St. Pourcain, B.\*, Kemp, J.P.\*, McMahon, G.\*, Timpson, N.J.\*, Evans, D.M.\*, Montgomery, G.W.\*, Mishra, A.\*, Wang, Y.X.\*, Wang, J.J.\*, Rochtchina, E.\*, Polasek, O.\*, Wright, A.F.\*, Amin, N.\*, van Leeuwen, E.M.\*, Wilson, J.F.\*, Pennell, C.E.\*, van Duijn, C.M.\*, de Jong, P.T.V.M.\*, Vingerling, J.R.\*, Zhou, X.\*, Chen, P.\*, Li, R.Y.\*, Tay, W.T.\*, Zheng, Y.F.\*, Chew, M.\*, Burdon, K.P.\*, Craig, J.E.\*, Iyengar, S.K.\*, Igo, R.P.\*, Lass, J.H.\*, Chew, E.Y.\*, Haller, T.\*, Mihailov, E.\*, Metspalu, A.\*, Wedenoja, J.\*, Simpson, C.L.\*, Wojciechowski, R.\*, Höhn, R.\*, Mirshahi, A.\*, Zeller, T.\*, Pfeiffer, N.\*, Lackner, K.J.\*, Bettecken, T., Meitinger, T., Oexle, K.\*, Pirastu, M.\*, Portas, L.\*, Nag, A.\*, Williams, K.M.\*, Yonova-Doing, E.\*, Klein, R.\*, Klein, B.E.\*, Hosseini, S.M.\*, Paterson, A.D.\*, Mäkelä, K.M.\*, Lehtimäki, T.\*, Kähönen, M.\*, Raitakari, O.\*, Yoshimura, N.\*, Matsuda, F.\*, Chen, L.J.\*, Pang, C.P.\*, Yip, S.P.\*, Yap, M.K.H.\*, Meguro, A.\*, Mizuki, N.\*, Inoko, H.\*, Foster, P.J.\*, Zhao, J.H.\*, Vithana, E.\*, Tai, E.S.\*, Fan, Q.\*, Xu, L.\*, Campbell, H.\*, Fleck, B.\*, Rudan, I.\*, Aung, T.\*, Hofman, A.\*, Uitterlinden, A.G.\*, Bencic, G.\*, Khor, C.C.\*, Forward, H.\*, Pärssinen, O.\*, Mitche, P.\*, Rivadeneira, F.\*, Hewitt, A.W.\*, Williams, C.\*, Oostra, B.A.\*, Teo, Y.Y.\*, Hammond, C.J.\*, Stambolian, D.\*, Mackey, D.A.\*, Klaver, C.C.W.\*, Wong, T.Y.\*, Saw, S.M.\*, Baird, P.N.\*: Nine loci for ocular axial length identified through genome-wide association studies, including shared loci with refractive error. Am. J. Hum. Genet. 93, 264-277 (2013)

Chockalingam, P.\*, Crotti, L., Girardengo, G.\*, Johnson, J.N.\*, Harris, K.M.\*, van der Heijden, J.F.\*, Hauer, R.N.\*, Beckmann, B.M.\*, Spazzolini, C.\*, Rordorf, R.\*, Rydberg, A.\*, Clur, S.A.\*, Fischer, M.\*, van den Heuvel, F.\*, Kääb, S.\*, Blom, N.A.\*, Ackerman, M.J.\*, Schwartz, P.J.\*, Wilde, A.A.\*: Not all beta-blockers are equal in the management of long QT syndrome types 1 and 2: Higher recurrence of events under metoprolol. *J. Am. Coll. Cardiol.* **60**, 2092-2099 (2012)

Chursov, A.\*, Frishman, D., Shneider, A.\*: Conservation of mRNA secondary structures may filter out mutations in *Escherichia coli* evolution. *Nucleic Acids Res.* **41**, 7854-7860 (2013)

Clemmensen, C., Chabenne, J.\*, Finan, B., Sullivan, L.\*, Fischer, K., Küchler, D., Sehrer, L., Ograjsek, T., Hofmann, S., Schriever, S.C., Pfluger, P.T., Pinkstaff, J.K.\*, Tschöp, M.H., DiMarchi, R.\*, Müller, T.D.: GLP-1/glucagon co-agonism restores leptin responsiveness in obese mice chronically maintained on an obesogenic diet. *Diabetes*, DOI:10.2337/db13-1609 (2013)

Collin, R.W.\*, Nikopoulos, K.\*, Dona, M.\*, Gilissen, C.\*, Hoischen, A.\*, Boonstra, F.N.\*, Poulter, J.A.\*, Kondo, H.\*, Berger, W.\*, Toomes, C.\*, Tahira, T.\*, Mohn, L.R.\*, Blokland, E.A.\*, Hetterschijt, L.\*, Ali, M.\*, Groothuismink, J.M.\*, Duijkers, L.\*, Inglehearn, C.F.\*, Sollfrank, L.\*, Strom, T.-M., Uchio, E.\*, van Nouhuys, C.E.\*, Kremer, H.\*, Veltman, J.A.\*, van Wijk, E.\*, Cremers, F.P.\*: *ZNF408* is mutated in familial exudative vitreoretinopathy and is crucial for the development of zebrafish retinal vasculature. *Proc. Natl. Acad. Sci. U.S.A.* **110**, 9856-9861 (2013)

Conrad, M., Schick, J., Angeli, J.P.: Glutathione and thioredoxin dependent systems in neurodegenerative disease: What can be learned from reverse genetics in mice. *Neurochem. Int.* **62**, 738-749 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

Correia, T.\*, Rudge, T.\*, Koch, M., Ntziachristos, V., Arridge, S.\*: Wavelet-based data and solution compression for efficient image reconstruction in fluorescence diffuse optical tomography. *J. Biomed. Opt.* **18**:86008 (2013)

Crotti, L., Johnson, C.N.\*, Graf, E., de Ferrari, G.M.\*, Cuneo, B.F.\*, Ovadia, M.\*, Papagiannis, J.\*, Feldkamp, M.D.\*, Rathi, S.G.\*, Kunic, J.D.\*, Pedrazzini, M.\*, Wieland, T., Lichtner, P., Beckmann, B.M.\*, Clark, T.\*, Shaffer, C.\*, Benson, D.W.\*, Kääb, S.\*, Meitinger, T., Strom, T.-M., Chazin, W.J.\*, Schwartz, P.J.\*, George, A.L.\*: Calmodulin mutations associated with recurrent cardiac arrest in infants. *Circulation* **127**, 1009-1017 (2013)

Crotti, L., Tester, D.J.\*, White, W.M.\*, Bartos, D.C.\*, Insolia, R.\*, Besana, A.\*, Kunic, J.D.\*, Will, M.L.\*, Velasco, E.J.\*, Bair, J.J.\*, Ghidoni, A.\*, Cetin, I.\*, van Dyke, D.L.\*, Wick, M.J.\*, Brost, B.\*, Delisle, B.P.\*, Facchinetti, F.\*, George, A.L.\*, Schwartz, P.J.\*, Ackerman, M.J.\*: Long QT syndrome-associated mutations in intrauterine fetal death. *JAMA* **309**, 1473-1482 (2013)

Czaja, W.\*, Ehler, M.: Schroedinger eigenmaps for the analysis of biomedical data. *IEEE Trans. Pattern Anal. Mach. Intell.* **35**, 1274-1280 (2013)

Dagnell, M.\*, Frijhoff, J.\*, Pader, I.\*, Augsten, M.\*, Boivin, B.\*, Xu, J.Q.\*, Mandal, P.K.\*, Tonks, N.K.\*, Hellberg, C.\*, Conrad, M., Arner, E.S.J.\*, Östman, A.\*: Selective activation of oxidized PTP1B by the thioredoxin system modulates PDGF-β receptor tyrosine kinase signaling. *Proc. Natl. Acad. Sci. U.S.A.* **110**, 13398-13403 (2013)

Dahlhoff, M.\*, Hrabé de Angelis, M., Wolf, E.\*, Schneider, M.R.\*: Ligand-independent epidermal growth factor receptor hyperactivation increases sebaceous gland size and sebum secretion in mice. *Exp. Dermatol.* **22**, 667-669 (2013)

Dahlhoff, M.\*, Pfister, S.\*, Blutke, A.\*, Rozman, J., Klingenspor, M.\*, Deutsch, M.J.\*, Rathkolb, B., Fink, B.\*, Gimpfl, M.\*, Hrabé de Angelis, M., Roscher, A.A.\*, Wolf, E.\*, Ensenauer, R.\*: Periconceptional obesogenic exposure induces sex-specific programming of disease susceptibilities in adult mouse offspring. *Biochim. Biophys. Acta-Mol. Basis Dis.* **1842**, 304–317 (2014) [published online 2013]

Dallmann, A., Simon, B.\*, Duszczyk, M.M., Kooshapur, H., Pardi, A.\*, Bermel, W.\*, Sattler, M.: Efficient detection of hydrogen bonds in dynamic regions of RNA by sensitivity-optimized NMR pulse sequences. *Angew. Chem.-Int. Edit.* **52**, 10487-10490 (2013)

Dancer, E.N.\*, Du, Y.\*, Efendiyev, M.: Quasilinear elliptic equations on half- and quarter-spaces. *Adv. Nonlinear Stud.* **13**, 115-136 (2013)

Dauvilliers, Y.\*, Winkelmann, J.: Restless legs syndrome: Update on pathogenesis. *Curr. Opin. Pulm. Med.* **19**, 594-600 (2013)

Dean-Ben, X.L., Razansky, D.: Portable spherical array probe for volumetric real-time optoacoustic imaging at centimetre-scale depths. *Opt. Express.* **21**, 28062-28071 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

Dean-Ben, X.L., Ozbek, A., Razansky, D.: Volumetric real-time tracking of peripheral human vasculature with GPU-accelerated three-dimensional optoacoustic tomography. *IEEE Trans. Med. Imaging* **33**, 2050-2055 (2013)

Dean-Ben, X.L., Ma, R., Rosenthal, A., Ntziachristos, V., Razansky, D.: Weighted model-based optoacoustic reconstruction in acoustic scattering media. *Phys. Med. Biol.* **58**, 5555-5566 (2013)

DeCarolis, N.A.\*, Mechanic, M.\*, Petrik, D.\*, Carlton, A.\*, Ables, J.L.\*, Malhotra, S.\*, Bachoo, R.\*, Götz, M., Lagacen, D.C.\*, Eisch, A.J.\*: *In vivo* contribution of nestin- and GLAST-lineage cells to adult hippocampal neurogenesis. *Hippocampus* **23**, 708-719 (2013)

Degenfeld-Schonburg, S.\*, Lasser, R.: Multipliers on  $L^p$ -spaces for hypergroups. *Rocky Mt. J. Math.* **43**, 1115-1139 (2013)

Degroote, R.L.\*, Hauck, S.M., Treutlein, G.\*, Amann, B.\*, Fröhlich, K.J.H.\*, Kremmer, E., Merl, J., Stangassinger, M.\*, Ueffing, M., Deeg, C. A.\*: Expression changes and novel interaction partners of talin 1 in effector cells of autoimmune uveitis. *J. Proteome Res.* **12**, 5812–5819 (2013)

Desbordes, S.C., Studer, L.\*: Adapting human pluripotent stem cells to high-throughput and high-content screening. *Nat. Protoc.* **8**, 111-130 (2013)

Deshpande, A.\*, Bergami, M.\*, Ghanem, A.\*, Conzelmann, K.-H.\*, Lepier, A.\*, Götz, M., Berninger, B.\*: Retrograde monosynaptic tracing reveals the temporal evolution of inputs onto new neurons in the adult dentate gyrus and olfactory bulb. *Proc. Natl. Acad. Sci. U.S.A.* **110**, 1152-1161 (2013)

Despars, G.\*, Carbonneau, C.L.\*, Bardeau, P.\*, Coutu, D.L., Beauséjour, C.M.\*: Loss of the osteogenic differentiation potential during senescence is limited to bone progenitor cells and is dependent on p53. *PLoS ONE* **8**:e73206 (2013)

Dharuri, H.\*, Henneman, P.\*, Demirkan, A.\*, Mook-Kanamori, D.O.\*, Wang-Sattler, R., Gieger, C., Adamski, J., Hettne, K.\*, Roos, M.\*, Suhre, K., van Duijn, C.M\*, van Dijk, K.W.\*, 't Hoen, P.A.\*: Automated wokflow-based exploitation of pathway databases provides new insights into genetic associations of metabolite profiles. *BMC Genomics* **14**:865 (2013)

Di Giovannantonio, L.G.\*, Di Salvio, M.\*, Omodei, D.\*, Prakash, N., Wurst, W., Pierani, A.\*, Acampora, D.\*, Simeone, A.\*: Otx2 cell-autonomously determines dorsal mesencephalon versus cerebellum fate independently of isthmic organizing activity. *Development* **141**, 377-388 (2014) [published online 2013]

Dima, A., Gateau, J., Claussen, J.\*, Wilhelm, D.\*, Ntziachristos, V.: Optoacoustic imaging of blood perfusion: Techniques for intraoperative tissue viability assessment. *J. Biophotonics* **6**, 485-492 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

Dimas, A.S.\*, Lagou, V.\*, Barker, A.\*, Knowles, J.W.\*, Mägi, R.\*, Hivert, M.F.\*, Benazzo, A.\*, Rybin, D.\*, Jackson, A.U.\*, Stringham, H.M.\*, Song, C.\*, Fischer-Rosinsky, A.\*, Boesgaard, T.W.\*, Grarup, N.\*, Abbasi, F.A.\*, Assimes, T.L.\*, Hao, K.\*, Yang, X.\*, Lecoeur, C.\*, Barroso, I.\*, Bonnycastle, L.L.\*, Böttcher, Y.\*, Bumpstead, S.\*, Chines, P.S.\*, Erdos, M.R.\*, Graessler, J.\*, Kovacs, P.\*, Morken, M.A.\*, Narisu, N.\*, Payne, F.\*, Stancáková, A.\*, Swift, A.J.\*, Tönjes, A.\*, Bornstein, S.R.\*, Cauchi, S.\*, Froguel, P.\*, Meyre, D.\*, Schwarz, P.E.\*, Häring, H.U.\*, Smith, U.\*, Boehnke, M.\*, Bergman, R.N.\*, Collins, F.S.\*, Mohlke, K.L.\*, Tuomilehto, J.\*, Quertemous, T.\*, Lind, L.\*, Hansen, T.\*, Pedersen, O.\*, Walker, M.\*, Pfeiffer, A.F.\*, Spranger, J.\*, Stumvoll, M.\*, Meigs, J.B.\*, Wareham, N.J.\*, Kuusisto, J.\*, Laakso, M.\*, Langenberg, C.\*, Dupuis, J.\*, Watanabe, R.M.\*, Florez, J.C.\*, Ingelsson, E.\*, McCarthy, M.I.\*, Prokopenko, I.\*, MAGIC Investigators (Grallert, H.H., Gieger, C., Meisinger, C., Thorand, B., Wichmann, H.-E., Illig, T.): Impact of type 2 diabetes susceptibility variants on quantitative glycemic traits reveals mechanistic heterogeneity. *Diabetes*, DOI:10.2337/db13-0949 (2013)

Duchatelet, S.\*, Crotti, L., Peat, R.A.\*, Denjoy, I.\*, Itoh, H.\*, Berthet, M.\*, Ohno, S.\*, Fressart, V.\*, Monti, M.C.\*, Crocamo, C.\*, Pedrazzini, M.\*, Dagradi, F.\*, Vicentini, A.\*, Klug, D.\*, Brink, P.A.\*, Goosen, A.\*, Swan, H.\*, Toivonen, L.\*, Lahtinen, A.M.\*, Kontula, K.\*, Shimizu, W.\*, Horie, M.\*, George, A.L.\*, Tregouet, D.A.\*, Guicheney, P.\*, Schwartz, P.J.\*: Identification of a KCNQ1 polymorphism acting as a protective modifier against arrhythmic risk in long-QT syndrome. *Circ. Cardiovasc. Genet.* **6**, 354-361 (2013)

Dyrba, M.\*, Ewers, M.\*, Wegrzyn, M.\*, Kilimann, I.\*, Plant, C., Oswald, A.\*, Meindl, T.\*, Pievani, M.\*, Bokde, A.L.W.\*, Fellgiebel, A.\*, Filippi, M.\*, Hampel, H.\*, Klöppel, S.\*, Hauenstein, K.\*, Kirste, T.\*, Teipel, S.J.\*, EDSD Study Group: Robust automated detection of microstructural white matter degeneration in Alzheimer's disease using machine learning classification of multicenter DTI data. *PLoS ONE* **8**:e64925 (2013)

Eberl, H.J.\*, Efendiyev, M.A., Wrzosek, D.\*, Zhigun, A.\*: Analysis of a degenerate biofilm model with a nutrient taxis term. *Discret. Contin. Dyn. Syst.* **34**, 99-119 (2014)

Edelmann, F.T., Niedner, A., Niessing, D.: Production of pure and functional RNA for *in vitro* reconstitution experiments. *Methods* **65**, 333–341 (2013)

Edelmann, K., Glashauser, L., Sprungala, S., Hesl, B., Fritschle, M., Ninkovic, J., Godinho, L.\*, Chapouton, P.: Increased radial glia quiescence, decreased reactivation upon injury and unaltered neuroblast behavior underlie decreased neurogenesis in the aging zebrafish telencephalon. *J. Comp. Neurol.* **521**, 3099-3115 (2013)

Eguizabal, A.\*, Laughney, A.M.\*, García-Allende, P.B., Krishnaswamy, V.\*, Wells, W.A.\*, Paulsen, K.D.\*, Pogue, B.W.\*, Lopez-Higuera, J.M.\*, Conde, O.M.\*: Direct identification of breast cancer pathologies using blind separation of label-free localized reflectance measurements. *Biomed. Opt. Express* **4**, 1104-1118 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

Ellinghaus, D.\*, Zhang, H.\*, Zeissig, S.\*, Lipinski, S.\*, Till, A.\*, Jiang, T.\*, Stade, B.\*, Bromberg, Y.\*, Ellinghaus, E.\*, Keller, A.\*, Rivas, M.A.\*, Skieceviciene, J.\*, Doncheva, N.T.\*, Liu, X.\*, Liu, Q.\*, Jiang, F.\*, Forster, M.\*, Mayr, G.\*, Albrecht, M.\*, Häsler, R.\*, Boehm, B.O.\*, Goodall, J.\*, Berzuini, C.R.\*, Lee, J.\*, Andersen, V.\*, Vogel, U.\*, Kupcinskas, L.\*, Kayser, M.\*, Krawczak, M.\*, Nikolaus, S.\*, Weersma, R.K.\*, Ponsioen, C.Y.\*, Sans, M.\*, Wijmenga, C.\*, Strachan, D.P.\*, McArdle, W.L.\*, Vermeire, S.\*, Rutgeerts, P.\*, Sanderson, J.D.\*, Mathew, C.G.\*, Vatn, M.H.\*, Wang, J.\*, Nöthen, M.M.\*, Duerr, R.H.\*, Büning, C.\*, Brand, S.\*, Glas, J.\*, Winkelmann, J., Illig, T., Latiano, A.\*, Annese, V.\*, Halfvarson, J.\*, D'Amato, M.\*, Daly, M.J.\*, Nothnagel, M.\*, Karlsen, T.H.\*, Subramani, S.\*, Rosenstiel, P.\*, Schreiber, S.\*, Parkes, M.\*, Franke, A.\*: Association between variants of *PRDM1* and *NDP52* and Crohn's disease, based on exome sequencing and functional studies. *Gastroenterology* **145**, 339-347 (2013)

Ellinghaus, D.\*, Baurecht, H.\*, Esparza-Gordillo, J.\*, Rodriguez, E.\*, Matanovic, A.\*, Marenholz, I.\*, Hubner, N.\*, Schaarschmidt, H.\*, Novak, N.\*, Michel, S.\*, Maintz, L.\*, Werfel, T.\*, Meyer-Hoffert, U.\*, Hotze, M.\*, Prokisch, H., Heim, K., Herder, C.\*, Hirota, T.\*, Tamari, M.\*, Kubo, M.\*, Takahashi, A.\*, Nakamura, Y.\*, Tsoi, L.C.\*, Stuart, P.\*, Elder, J.T.\*, Sun, L.\*, Zuo, X.\*, Yang, S.\*, Zhang, X.\*, Hoffmann, P.\*, Nöthen, M.M.\*, Fölster-Holst, R.\*, Winkelmann, J., Illig, T., Boehm, B.O.\*, Duerr, R.H.\*, Büning, C.\*, Brand, S.\*, Glas, J.\*, McAleer, M.A.\*, Fahy, C.M.\*, Kabesch, M.\*, Brown, S.\*, McLean, W.H.\*, Irvine, A.D.\*, Schreiber, S.\*, Lee, Y.A.\*, Franke, A.\*, Weidinger, S.\*: High-density genotyping study identifies four new susceptibility loci for atopic dermatitis. *Nat. Genet.* **45**, 808-812 (2013)

Engert, S., Burtscher, I., Kalali, B.\*, Gerhard, M.\*, Lickert, H.: The Sox17<sup>CreERT2</sup> knock-in mouse line displays spatiotemporal activation of Cre recombinase in distinct Sox17 lineage progenitors. *Genesis* **51**, 793-802 (2013)

Engert, S., Burtscher, I., Liao, W.P., Dulev, S.\*, Schotta, G.\*, Lickert, H.: Wnt/β-catenin signalling regulates *Sox17* expression and is essential for organizer and endoderm formation in the mouse. *Development* **140**, 3128-3138 (2013)

Erdmann, J.\*, Stark, K.\*, Esslinger, U.B.\*, Rumpf, P.M.\*, Koesling, D.\*, de Wit, C.\*, Kaiser, F.J.\*, Braunholz, D.\*, Medack, A.\*, Fischer, M.\*, Zimmermann, M.E.\*, Tennstedt, S.\*, Graf, E., Eck, S., Aherrahrou, Z.\*, Nahrstaedt, J.\*, Willenborg, C.\*, Bruse, P.\*, Brænne, I.\*, Nöthen, M.M.\*, Hofmann, P.\*, Braund, P.S.\*, Mergia, E.\*, Reinhard, W.\*, Burgdorf, C.\*, Schreiber, S.\*, Balmforth, A.J.\*, Hall, A.S.\*, Bertram, L.\*, Steinhagen-Thiessen, E.\*, Li, S.C.\*, Marz, W.\*, Reilly, M.\*, Kathiresan, S.\*, McPherson, R.\*, Walter, U.\*, CARDIOGRAM Consortium (Wichmann, H.-E., Döring, A., Illig, T., Klopp, N.B., Meisinger, C., Peters, A.), Ott, J.\*, Samani, N.J.\*, Strom, T.-M., Meitinger, T., Hengstenberg, C.\*, Schunkert, H.\*: Dysfunctional nitric oxide signalling increases risk of myocardial infarction. *Nature* **504**, 432–436 (2013)

Ermolayev, V., Cohrs, C.M., Mohajerani, P., Ale, A., Hrabé de Angelis, M., Ntziachristos, V.: Ex-vivo assessment and non-invasive *in vivo* imaging of internal hemorrhages in *Aga2/*+ mutant mice. *Biochem. Biophys. Res. Commun.* **432**, 389-393 (2013)

German Research Center for Environmental Health

### **Publication List 2013**

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

Eslami, A., Karamalis, A.\*, Katouzian, A.\*, Navab, N.\*: Segmentation by retrieval with guided random walks: Application to left ventricle segmentation in MRI. *Med. Image Anal.* **17**, 236-253 (2013)

Eugster, A.\*, Lindner, A.\*, Heninger, A.K.\*, Wilhelm, C.\*, Dietz, S.\*, Ziegler, A.-G., Bonifacio, E.\*: Measuring T cell receptor and T cell gene expression diversity in antigen-responsive human CD4<sup>+</sup> T cells. *J. Immunol. Methods* **400-401**, 13-22 (2013)

Euler, K.N.\*, Hauck, S.M., Ueffing, M., Deeg, C.A.\*: Bovine neonatal pancytopenia - comparative proteomic characterization of two BVD vaccines and the producer cell surface proteome (MDBK). *BMC Vet. Res.* **9**:18 (2013)

Faraco, J.\*, Lin, L.\*, Kornum, B.R.\*, Kenny, E.E.\*, Trynka, G.\*, Einen, M.\*, Rico, T.J.\*, Lichtner, P., Dauvilliers, Y.\*, Arnulf, I.\*, Lecendreux, M.\*, Javidi, S.\*, Geisler, P.\*, Mayer, G.\*, Pizza, F.\*, Poli, F.\*, Plazzi, G.\*, Overeem, S.\*, Lammers, G.J.\*, Kemlink, D.\*, Sonka, K.\*, Nevsimalova, S.\*, Rouleau, G.\*, Desautels, A.\*, Montplaisir, J.\*, Frauscher, B.\*, Ehrmann, L.\*, Högl, B.\*, Jennum, P.\*, Bourgin, P.\*, Peraita-Adrados, R.\*, Iranzo, A.\*, Bassetti, C.\*, Chen, W.M.\*, Concannon, P.\*, Thompson, S.D.\*, Damotte, V.\*, Fontaine, B.\*, Breban, M.\*, Gieger, C., Klopp, N., Deloukas, P.\*, Wijmenga, C.\*, Hallmayer, J.\*, Onengut-Gumuscu, S.\*, Rich, S.S.\*, Winkelmann, J., Mignot, E.\*: ImmunoChip study implicates antigen presentation to T cells in narcolepsy. *PLoS Genet.* **9**:e1003270 (2013)

Filipczyk, A., Gkatzis, K.\*, Fu, J.\*, Hoppe, P.S., Lickert, H., Anastassiadis, K.\*, Schroeder, T.: Biallelic expression of nanog protein in mouse embryonic stem cells. *Cell Stem Cell* **13**, 12-13 (2013)

Finan, B., Ma, T.\*, Ottaway, N.\*, Müller, T.D., Habegger, K.M.\*, Heppner, K.M.\*, Kirchner, H.\*, Holland, J.\*, Hembree, J.\*, Raver, C.\*, Lockie, S.H.\*, Smiley, D.L.\*, Gelfanov, V.\*, Yang, B.\*, Hofmann, S., Bruemmer, D.\*, Drucker, D.J.\*, Pfluger, P.T., Perez-Tilve, D.\*, Gidda, J.\*, Vignati, L.\*, Zhang, L.\*, Hauptman, J.B.\*, Lau, M.\*, Brecheisen, M.\*, Uhles, S.\*, Riboulet, W.\*, Hainaut, E.\*, Sebokova, E.\*, Conde-Knape, K.\*, Konkar, A.\*, DiMarchi, R.D.\*, Tschöp, M.H.: Unimolecular dual incretins maximize metabolic benefits in rodents, monkeys, and humans. *Sci. Transl. Med.* **5**:209ra151 (2013)

Fischer, E.\*, Adolf, C.\*, Pallauf, A.\*, Then, C.\*, Bidlingmaier, M.\*, Beuschlein, F.\*, Seissler, J., Reincke, M.\*: Aldosterone excess impairs first phase insulin secretion in primary aldosteronism. *J. Clin. Endocrinol. Metab.* **98**, 2513-2520 (2013)

Floegel, A.\*, von Ruesten, A.\*, Drogan, D.\*, Schulze, M.B.\*, Prehn, C., Adamski, J., Pischon, T.\*, Boeing, H.\*: Variation of serum metabolites related to habitual diet: A targeted metabolomic approach in EPIC-Potsdam. *Eur. J. Clin. Nutr.* **67**, 1100-1108 (2013)

Forster, B., Garunkstis, R.\*, Massopust, P., Steuding, J.\*: Complex B-splines and Hurwitz zeta functions. *LMS J. Comput. Math.* **16**, 61-77 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

Frangoulidis, D.\*, Splettstoesser, W.D.\*, Landt, O.\*, Dehnhardt, J.\*, Henning, K.\*, Hilbert, A.\*, Bauer, T.\*, Antwerpen, M.\*, Meyer, H.\*, Walter, M.C., Knobloch, J.K.M.\*: Microevolution of the chromosomal region of acute disease antigen A (*adaA*) in the Query (Q) fever agent *Coxiella burnetii*. *PLoS ONE* **8**:e53440 (2013)

Frank, S.\*, Heni, M., Moss, A.\*, von Schnurbein, J.\*, Farooqi, S.\*, Häring, H.-U., Fritsche, A., Preissl, H., Wabitsch, M.\*: Long-term stabilization effects of leptin on brain functions in a leptin-deficient patient. *PLoS ONE* **8**:e65893 (2013)

Frank, S.\*, Kullmann, S., Veit, R.\*: Food related processes in the insular cortex. *Front. Hum. Neurosci.* **7**:499 (2013)

Frank, S.\*, Linder, K.\*, Fritsche, L.\*, Hege, M.A.\*, Kullmann, S., Krzeminski, A.\*, Fritsche, A., Schieberle, P.\*, Somoza, V.\*, Hinrichs, J.\*, Veit, R.\*, Preissl, H.: Olive oil aroma extract modulates cerebral blood flow in gustatory brain areas in humans. *Am. J. Clin. Nutr.* **98**, 1360-1366 (2013)

Frankó, A., Baris, O.R.\*, Bergschneider, E.\*, von Toerne, C., Hauck, S.M., Aichler, M.Y., Walch, A.K., Wurst, W., Wiesner, R.J.\*, Johnston, I.C.D.\*, Hrabé de Angelis, M.: Efficient isolation of pure and functional mitochondria from mouse tissues using automated tissue disruption and enrichment with anti-TOM22 magnetic beads. *PLoS ONE* **8**:e82392 (2013)

Frankó, A., Kleist-Retzow, J.C.\*, Neschen, S., Wu, M., Schommers, P.\*, Böse, M.\*, Kunze, A.\*, Hartmann, U.\*, Sanchez-Lasheras, C.\*, Stoehr, O.\*, Huntgeburth, M.\*, Brodesser, S.\*, Irmler, M., Beckers, J., Hrabé de Angelis, M., Paulsson, M.\*, Schubert, M.\*, Wiesner, R.J.\*: Liver adapts mitochondrial function to insulin resistant and diabetic states in mice. *J. Hepatol.*, DOI:10.1016/j.jhep.2013.11.020 (2013)

Freiherr, J.\*, Hallschmid, M., Frey, W.H.\*, Brunner, Y.F.\*, Chapman, C.D.\*, Hölscher, C.\*, Craft, S.\*, de Felice, F.G.\*, Benedict, C.\*: Intranasal insulin as a treatment for Alzheimer's disease: A review of basic research and clinical evidence. *CNS Drugs* **27**, 505-514 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

French, J.D.\*, Ghoussaini, M.\*, Edwards, S.L.\*, Meyer, K.B.\*, Michailidou, K.\*, Ahmed, S.\*, Khan, S.\*, Maranian, M.J.\*, O'Reilly, M.\*, Hillman, K.M.\*, Betts, J.A.\*, Carro, T.\*, Bailey, P.J.\*, Dicks, E.\*, Beesley, J.\*, Tyrer, J.\*, Maia, A.T.\*, Beck, A.\*, Knoblauch, N.W.\*, Chen, C.\*, Kraft, P.\*, Barnes, D.\*, González-Neira, A.\*, Alonso, M.R.\*, Herrero, D.\*, Tessier, D.C.\*, Vincent, D.\*, Bacot, F.\*, Luccarini, C.\*, Baynes, C.\*, Conroy, D.\*, Dennis, J.\*, Bolla, M.K.\*, Wang, Q.\*, Hopper, J.L.\*, Southey, M.C.\*, Schmidt, M.K.\*, Broeks, A.\*, Verhoef, S.\*, Cornelissen, S.\*, Muir, K.\*, Lophatananon, A.\*, Stewart-Brown, S.\*, Siriwanarangsan, P.\*, Fasching, P.A.\*, Loehberg, C.R.\*, Ekici, A.B.\*, Beckmann, M.W.\*, Peto, J.\*, Silva, I.D.S.\*, Johnson, N.\*, Aitken, Z.\*, Sawyer, E.J.\*, Tomlinson, I.\*, Kerin, M.J.\*, Miller, N.\*, Marme, F.\*, Schneeweiss, A.\*, Sohn, C.\*, Burwinkel, B.\*, Guénel, P.\*, Truong, T.\*, Laurent-Puig, P.\*, Menegaux, F.\*, Bojesen, S.E.\*, Nordestgaard, N.G.\*, Nielsen, S.F.\*, Flyger, H.\*, Milne, R.L.\*, Zamora, M.P.\*, Perez, J.I.A.\*, Benítez, J.\*, Anton-Culver, H.\*, Brenner, H.\*, Müller, H.\*, Arndt, V.\*, Stegmaier, C.\*, Meind, A.\*, Lichtner, P., Schmutzler, R.K.\*, Engel, C.\*, Brauch, H.\*, Hamann, U.\*, Justenhoven, C.\*, Aaltonen, K.\*, Heikkila, P.\*, Aittomäki, K.\*, Blomqvist, C.\*, Matsuo, K.\*, Ito, H.\*, Iwata, H.\*, Sueta, A.\*, Bogdanova, N.V.\*, Antonenkova, N.N.\*, Dörk, T.\*, Lindblom, A.\*, Margolin, S.\*, Mannermaa, A.\*, Kataja, V.\*, Kosma, V.M.\*, Hartikainen, J.M.\*, Wu, A.H.\*, Tseng, C.C.\*, van Den Berg, D.\*, Stram, D.O.\*, Lambrechts, D.\*, Peeters, S.\*, Smeets, A.\*, Floris, G.\*, Chang-Claude, J.\*, Rudolph, A.\*, Nickels, S.\*, Flesch-Janys, D.\*, Radice, P.\*, Peterlongo, P.\*, Bonanni, B.\*, Sardella, D.\*, Couch, F.J.\*, Wang, X.S.\*, Pankratz, V.S.\*, Lee, A.\*, Giles, G.G.\*, Severi, G.\*, Baglietto, L.\*, Haiman, C.A.\*, Henderson, B.E.\*, Schumacher, F.\*, Le Marchand, L.\*, Simard, J.\*, Goldberg, M.S.\*, Labreche, F.\*, Dumont, M.\*, Teo, S.H.\*, Yip, C.H.\*, Ng, C.H.\*, Vithana, E.N.\*, Kristensen, V.\*, Zheng, W.\*, Deming-Halverson, S.\*, Shrubsole, M.\*, Long, J.R.\*, Winqvist, R.\*, Pylkäs, K.\*, Jukkola-Vuorinen, A.\*, Grip, M.\*, Andrulis, I.L.\*, Knight, J.A.\*, Glendon, G.\*, Mulligan, A.M.\*, Devilee, P.\*, Seynaeve, C.\*, Garcia-Closas, M.\*, Figueroa, J.\*, Chanock, S.J.\*, Lissowska, J.\*, Czene, K.\*, Klevebring, D.\*, Schoof, N.\*, Hooning, M.J.\*, Martens, J.W.M.\*, Collee, J.M.\*, Tilanus-Linthorst, M.\*, Hall, P.\*, Li, J.M.\*, Liu, J.J.\*, Humphreys, K.\*, Shu, X.O.\*, Lu, W.\*, Gao, Y.T.\*, Cai, H.\*, Cox, A.\*, Balasubramanian, S.P.\*, Blot, W.\*, Signorello, L.B.\*, Cai, Q.Y.\*, Pharoah, P.D.P.\*, Healey, C.S.\*, Shah, M.\*, Pooley, K.A.\*, Kang, D.\*, Yoo, K.Y.\*, Noh, D.Y.\*, Hartman, M.\*, Miao, H.\*, Sng, J.H.\*, Sim, X.\*, Jakubowska, A.\*, Lubinski, J.\*, Jaworska-Bieniek, K.\*, Durda, K.\*, Sangrajrang, S.\*, Gaborieau, V.\*, Mckay, J.\*, Toland, A.E.\*, Ambrosone, C.B.\*, Yannoukakos, D.\*, Godwin, A.K.\*, Shen, C.Y.\*, Hsiung, C.N.\*, Wu, P.E.\*, Chen, S.T.\*, Swerdlow, A.\*, Ashworth, A.\*, Orr, N.\*, Schoemaker, M.J.\*, Ponder, B.A.J.\*, Nevanlinna, H.\*, Brown, M.A.\*, Chenevix-Trench, G.\*, Easton, D.F.\*, Dunning, A.M.\*: Functional variants at the 11q13 risk locus for breast cancer regulate cyclin D1 expression through long-range enhancers. Am. J. Hum. Genet. 92, 489-503 (2013)

Frikel, J., Quinto, E.T.\*: Characterization and reduction of artifacts in limited angle tomography. *Inverse Probl.* **29**:125007 (2013)

Fuchs, H., Gau, C., Hans, W., Gailus-Durner, V., Hrabé de Angelis, M.: Long-term experiment to study the development, interaction and influencing factors of DEXA parameters. *Mamm. Genome* **24**, 376-388 (2013)

German Research Center for Environmental Health

### **Publication List 2013**

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

Fuente-Martin, E., García-Cáceres, C., Morselli, E.\*, Clegg, D.J.\*, Chowen, J.A.\*, Finan, B., Brinton, R.D.\*, Tschöp, M.H.: Estrogen, astrocytes and the neuroendocrine control of metabolism. *Rev. Endocr. Metab. Disord.* **14**, 331-338 (2013)

Gaca, S.\*, Reichert, S.\*, Multhoff, G., Wacker, M.\*, Hehlgans, S.\*, Botzler, C.\*, Gehrmann, M.\*, Rödel, C.\*, Kreuter, J.\*, Rödel, F.\*: Targeting by cmHsp70.1-antibody coated and survivin miRNA plasmid loaded nanoparticles to radiosensitize glioblastoma cells. *J. Control. Release* **172**, 201-206 (2013)

Gai, X.\*, Ghezzi, D.\*, Johnson, M.A.\*, Biagosch, C.A., Shamseldin, H.E.\*, Haack, T.B., Reyes, A.\*, Tsukikawa, M.\*, Sheldon, C.A.\*, Srinivasan, S.\*, Gorza, M., Kremer, L.S., Wieland, T., Strom, T.-M., Polyak, E.\*, Place, E.\*, Consugar, M.\*, Ostrovsky, J.\*, Vidoni, S.\*, Robinson, A.J.\*, Wong, L.J.\*, Sondheimer, N.\*, Salih, M.A.\*, Al-Jishi, E.\*, Raab, C.P.\*, Bean, C.\*, Furlan, F.\*, Parini, R.\*, Lamperti, C.\*, Mayr, J.A.\*, Konstantopoulou, V.\*, Huemer, M.\*, Pierce, E.A.\*, Meitinger, T., Freisinger, P.\*, Sperl, W.\*, Prokisch, H., Alkuraya, F.S.\*, Falk, M.J.\*, Zeviani, M.\*: Mutations in *FBXL4*, encoding a mitochondrial protein, cause early-onset mitochondrial encephalomyopathy. *Am. J. Hum. Genet.* **93**, 482-495 (2013)

Gao, Y., Ottaway, N.\*, Schriever, S.C., Legutko, B., García-Cáceres, C., de la Fuente, E., Mergen, C., Bour, S., Thaler, J.P.\*, Seeley, R.J.\*, Filosa, J.\*, Stern, J.E.\*, Perez-Tilve, D.\*, Schwartz, M.W.\*, Tschöp, M.H., Yi, C.-X.: Hormones and diet, but not body weight, control hypothalamic microglial activity. *Glia* **62**, 17-25 (2014)

García-Allende, P.B., Glatz, J., Koch, M., Ntziachristos, V.: Enriching the interventional vision of cancer with fluorescent and optoacoustic imaging. *J. Nucl. Med.* **54**, 664-667 (2013)

García-Cáceres, C., Yi, C.-X., Tschöp, M.H.: Hypothalamic astrocytes in obesity. *Endocrinol. Metab. Clin. North Am.* **42**, 57-66 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

Garcia-Closas, M.\*, Couch, F.J.\*, Lindström, S.\*, Michailidouo, K.\*, Schmidt, M.K.\*, Brook, M.N.\*, Orr, N.\*, Rhie, S.K.\*, Riboli, E.\*, Feigelson, H.S.\*, Le Marchand, L.\*, Buring, J.E.\*, Eccles, D.\*, Miron, P.\*, Fasching, P.A.\*, Brauch, H.\*, Chang-Claude, J.\*, Carpenter, J.\*, Godwin, A.K.\*, Nevanlinna, H.\*, Giles, G.G.\*, Cox, A.\*, Hopper, J.L.\*, Bolla, M.K.\*, Wang, Q.\*, Dennis, J.\*, Dicks, E.\*, Howat, W.J.\*, Schoof, N.\*, Bojesen, S.E.\*, Lambrechts, D.\*, Broeks, A.\*, Andrulis, I.L.\*, Guénel, P.\*, Burwinkel, B.\*, Sawyer, E.J.\*, Hollestelle, A.\*, Fletcher, O.\*, Wingvist, R.\*, Brenner, H.\*, Mannermaa, A.\*, Hamann, U.\*, Meindl, A.\*, Lindblom, A.\*, Zheng, W.\*, Devillee, P.\*, Goldberg, M.S.\*, Lubinski, J.\*, Kristensen, V.\*, Swerdlow, A.\*, Anton-Culver, H.\*, Doerk, T.\*, Muir, K.\*, Matsuo, K.\*, Wu, A.H.\*, Radice, P.\*, Teo, S.H.\*, Shu, X.O.\*, Blot, W.\*, Kang, D.\*, Hartman, M.\*, Sangrajrang, S.\*, Shen, C.Y.\*, Southey, M.C.\*, Park, D.J.\*, Hammet, F.\*, Stone, J.\*, van't Veer, L.J.\*, Rutgers, E.J.\*, Lophatananon, A.\*, Stewart-Brown, S.\*, Siriwanarangsan, P.\*, Peto, J.\*, Schrauder, M.G.\*, Ekici, A.B.\*, Beckmann, M.W.\*, Silva, I.D.\*, Johnson, N.\*, Warren, H.\*, Tomlins, I.\*, Kerin, M.J.\*, Miller, N.\*, Marme, F.\*, Schneeweiss, A.\*, Sohn, C.\*, Truong, T.\*, Laurent-Puig, P.\*, Kerbrat, P.\*, Nordestgaard, B.G.\*, Nielsen, S.F.\*, Flyger, H.\*, Milne, R.L.\*, Perez, J.I.A.\*, Menendez, P.\*, Müller, H.\*, Arndt, V.\*, Stegmaier, C.\*, Lichtner, P., Lochmann, M.\*, Justenhoven, C.\*, Ko, Y.D.\*, Muranen, T.A.\*, Aittomäki, K.\*, Blomqvist, C.\*, Greco, D.\*, Heikkinen, T.\*, Ito, H.\*, Iwata, H.\*, Yatabe, Y.\*, Antonenkova, N.N.\*, Margolin, S.\*, Kataja, V.\*, Kosma, V.M.\*, Hartikainen, J.M.\*, Balleine, R.\*, Tseng, C.C.\*, van Den Berg, D.\*, Stram, D.O.\*, Neven, P.\*, Dieudonne, A.S.\*, Leunen, K.\*, Rudolph, A.\*, Nickels, S.\*, Flesch-Janys, D.\*, Peterlongo, P.\*, Peissel, B.\*, Bernard, L.\*, Olson, J.E.\*, Wang, X.S.\*, Stevens, K.\*, Severi, G.\*, Baglietto, L.\*, McLean, C.\*, Coetzee, G.A.\*, Feng, Y.\*, Henderson, B.E.\*, Schumacher, F.\*, Bogdanova, N.V.\*, Labreche, F.\*, Dumont, M.\*, Yip, C.H.\*, Taib, N.A.M.\*, Cheng, C.Y.\*, Shrubsole, M.\*, Long, J.R.\*, Pylkäs, K.\*, Jukkola-Vuorinen, A.\*, Kauppila, S.\*, Knight, J.A.\*, Glendon, G.\*, Mulligan, A.M.\*, Tollenaar, R.A.E.M.\*, Seynaeve, C.M.\*, Kriege, M.\*, Hooning, M.J.\*, van den Ouweland, A.M.W.\*, van Deurzen, C.H.M.\*, Lu, W.\*, Gao, Y.T.\*, Cai, H.\*, Balasubramanian, S.P.\*, Cross, S.S.\*, Reed, M.W.R.\*, Signorello, L.\*, Cai, Q.Y.\*, Shah, M.\*, Miao, H.\*, Chan, C.W.\*, Chia, K.S.\*, Jakubowska, A.\*, Jaworska, K.\*, Durda, K.\*, Hsiung, C.N.\*, Wu, P.\*, Yu, J.C.\*, Ashworth, A.\*, Jones, M.\*, Tessier, D.C.\*, González-Neira, A.\*, Pita, G.\*, Alonso, M.R.\*, Vincent, D.\*, Bacot, F.\*, Ambrosone, C.B.\*, Bandera, E.V.\*, John, E.M.\*, Chen, G.K.\*, Hu, J.J.\*, Rodriguez-Gil, J.L.\*, Bernstein, L.\*, Press, M.F.\*, Ziegler, R.G.\*, Millikan, R.M.\*, Deming-Halverson, S.L.\*, Nyante, S.\*, Ingles, S.A.\*, Waisfisz, Q.\*, Tsimiklis, H.\*, Makalic, E.\*, Schmidt, D.\*, Bui, M.\*, Gibson, L.\*, Müller-Myhsok, B.\*, Schmutzler, R.K.\*, Hein, R.\*, Dahmen, N.\*, Beckmann, L.\*, Aaltonen, K.\*, Czene, K.\*, Irwanto, A.\*, Liu, J.J.\*, Turnbull, C.\*, Rahman, N.\*, Meijers-Heijboer, H.\*, Uitterlinden, A.G.\*, Rivadeneira, F.\*, Olswold, C.\*, Slager, S.\*, Pilarski, R.\*, Ademuyiwa, F.\*, Konstantopoulou, I.\*, Martin, N.G.\*, Montgomery, G.W.\*, Slamon, D.J.\*, Rauh, C.\*, Lux, M.P.\*, Jud, S.M.\*, Brüning, T.\*, Weaver, J.\*, Harma, P.\*, Pathak, H.\*, Tapper, W.\*, Gerty, S.\*, Durcan, L.\*, Trichopoulos, D.\*, Tumino, R.\*, Peeters, P.H.\*, Kaaks, R.\*, Campa, D.\*, Canzian, F.\*, Weiderpass, E.\*, Johansson, M.\*, Khaw, K.T.\*, Travis, R.\*, Clavel-Chapelon, F.\*, Kolonel, L.N.\*, Chen, C.\*, Beck, A.\*, Hankinson, S.E.\*, Berg, C.D.\*, Hoover, R.N.\*, Lissowska, J.\*, Figueroa, J.D.\*, Chasman, D.I.\*, Gaudet, M.M.\*, Diver, W.R.\*, Willett, W.C.\*, Hunter, D.J.\*, Simard, J.\*, Benítez, J.\*, Dunning, A.M.\*, Sherman, M.E.\*, Chenevix-Trench, G.\*, Chanock, S.J.\*, Hall, P.\*, Pharoah, P.D.P.\*, Vachon, C.\*, Easton, D.F.\*, Haiman, C.A.\*, Kraft, P.\*: Genome-wide association studies identify four ER negative-specific breast cancer risk loci. Nat. Genet. 45, 392-398 (2013)

German Research Center for Environmental Health

### Publication List 2013

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

Gateau, J., Chekkoury, A., Ntziachristos, V.: High-resolution optoacoustic mesoscopy with a 24 MHz multidetector translate-rotate scanner. *J. Biomed. Opt.* **18**:106005 (2013)

Gateau, J., Caballero, M.A.A., Dima, A., Ntziachristos, V.: Three-dimensional optoacoustic tomography using a conventional ultrasound linear detector array: Whole-body tomographic system for small animals. *Med. Phys.* **40**:013302 (2013)

Gateau, J., Chekkoury, A., Ntziachristos, V.: Ultra-wideband three-dimensional optoacoustic tomography. *Opt. Lett.* **38**, 4671-4674 (2013)

Giesert, F., Hofmann, A., Bürger, A., Zerle, J., Kloos, K., Hafen, U., Ernst, L., Zhang, J., Vogt-Weisenhorn, D.M., Wurst, W.: Expression analysis of *Irrk1*, *Irrk2* and *Irrk2* splice variants in mice. *PLoS ONE* **8**:e63778 (2013)

Gillardon, F.\*, Kremmer, E., Froehlich, T.\*, Ueffing, M., Hengerer, B.\*, Gloeckner, C.J.: ATP-competitive LRRK2 inhibitors interfere with monoclonal antibody binding to the kinase domain of LRRK2 under native conditions. A method to directly monitor the active conformation of LRRK2? *J.Neurosci. Methods* **214**, 62-68 (2013)

Gispert, S.\*, Parganlija, D.\*, Klinkenberg, M.\*, Dröse, S.\*, Wittig, I.\*, Mittelbronn, M.\*, Grzmil, P.\*, Koob, S.\*, Hamann, A.\*, Walter, M.\*, Buchel, F.\*, Adler, T., Hrabé de Angelis, M., Busch, D.H.\*, Zell, A.\*, Reichert, A.S.\*, Brandt, U.\*, Osiewacz, H.D.\*, Jendrach, M.\*, Auburger, G.\*: Loss of mitochondrial peptidase *Clpp* leads to infertility, hearing loss plus growth retardation *via* accumulation of CLPX, mtDNA, and inflammatory factors. *Hum. Mol. Genet.* **22**, 4871-4887 (2013)

Glatz, J.\*, Varga, J.\*, García-Allende, P.B., Koch, M., Greten, F.R.\*, Ntziachristos, V.: Concurrent video-rate color and near-infrared fluorescence laparoscopy. *J. Biomed. Opt.* **18**:101302 (2013)

Glatz, J.\*, García-Allende, P.B., Becker, V.\*, Koch, M., Meining, A.\*, Ntziachristos, V.: Near-infrared fluorescence cholangiopancreatoscopy: Initial clinical feasibility results. *Gastrointest. Endosc.*, DOI:10.1016/j.gie.2013.10.008 (2013)

Goebels, F.\*, Frishman, D.: Prediction of protein interaction types based on sequence and network features. *BMC Syst. Biol.* **7**:S5 (2013)

Gottschalk, S., Engelmann, J.\*, Rolla, G.A.\*, Botta, M.\*, Parker, D.\*, Mishra, A.: Comparative *in vitro* studies of MR imaging probes for metabotropic glutamate subtype-5 receptor targeting. *Org. Biomol. Chem.* **11**, 6131-6141 (2013)

Gräber, M.\*, Hell, M.\*, Grost, C.\*, Friberg, A., Sperl, B.\*, Sattler, M., Berg, T.\*: Oral disinfectants inhibit protein-protein interactions mediated by the anti-apoptotic protein Bcl-x<sub>L</sub> and induce apoptosis in human oral tumor cells. *Angew. Chem.-Int. Edit.* **52**, 4487-4491 (2013)

Grimpo, K.\*, Kutschke, M.\*, Kastl, A.\*, Meyer, C.W., Heldmaier, G.\*, Exner, C.\*, Jastroch, M.\*: Metabolic depression during warm torpor in the Golden spiny mouse (*Acomys russatus*) does not affect mitochondrial respiration and hydrogen peroxide release. *Comp. Biochem. Physiol. A-Mol. Integr. Physiol.* **167**, 7-14 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

Gutch, H.W.\*, Gruber, P.\*, Yeredor, A.\*, Theis, F.J.: ICA over finite fields - separability and algorithms. *Signal Process.* **92**, 1796-1808 (2012)

Haack, T.B., Kopajtich, R., Freisinger, P.\*, Wieland, T., Rorbach, J.\*, Nicholls, T.J.\*, Baruffini, E.\*, Walther, A., Danhauser, K.\*, Zimmermann, F.A.\*, Husain, R.A.\*, Schum, J., Mundy, H.\*, Ferrero, I.\*, Strom, T.-M., Meitinger, T., Taylor, R.W.\*, Minczuk, M.\*, Mayr, J.A.\*, Prokisch, H.: *ELAC2* mutations cause a mitochondrial RNA processing defect associated with hypertrophic cardiomyopathy. *Am. J. Hum. Genet.* **93**, 211-223 (2013)

Haack, T.B., Hogarth, P.\*, Gregory, A.\*, Prokisch, H., Hayflick, S.J.\*: BPAN: The only X-linked dominant NBIA disorder. *Int. Rev. Neurobiol.* **110**, 85-90 (2013)

Habegger, K.M.\*, Al-Massadi, O.\*, Heppner, K.M.\*, Myronovych, A.\*, Holland, J.\*, Berger, J.\*, Yi, C.-X., Gao, Y.\*, Lehti, M.\*, Ottaway, N.\*, Amburgy, S.\*, Raver, C.\*, Müller, T.D., Pfluger, P.T., Kohli, R.\*, Perez-Tilve, D.\*, Seeley, R.J.\*, Tschöp, M.H.: Duodenal nutrient exclusion improves metabolic syndrome and stimulates villus hyperplasia. *Gut*, DOI:10.1136/gutjnl-2013-304583 (2013)

Habegger, K.M.\*, Stemmer, K., Cheng, C.\*, Müller, T.D., Heppner, K.M.\*, Ottaway, N.\*, Holland, J.\*, Hembree, J.L.\*, Smiley, D.\*, Gelfanov, V.\*, Krishna, R.\*, Arafat, A.M.\*, Konkar, A.\*, Belli, S.\*, Kapps, M.\*, Woods, S.C.\*, Hofmann, S.M., D'Alessio, D.\*, Pfluger, P.T., Perez-Tilve, D.\*, Seeley, R.J.\*, Konishi, M.\*, Itoh, N.\*, Kharitonenkov, A.\*, Spranger, J.\*, DiMarchi, R.D.\*, Tschöp, M.H.: Fibroblast growth factor 21 mediates specific glucagon actions. *Diabetes* **62**, 1453-1463 (2013)

Habegger, K.M.\*, Kirchner, H.\*, Yi, C.-X., Heppner, K.M.\*, Sweeney, D.\*, Ottaway, N.\*, Holland, J.\*, Amburgy, S.\*, Raver, C.\*, Krishna, R.\*, Müller, T.D., Perez-Tilve, D.\*, Pfluger, P.T., Obici, S.\*, DiMarchi, R.D.\*, D'Alessio, D.A.\*, Seeley, R.J.\*, Tschöp, M.H.: GLP-1R agonism enhances adjustable gastric banding in diet-induced obese rats. *Diabetes* **62**, 3261-3267 (2013)

Habegger, K.M.\*, Heppner, K.M.\*, Amburgy, S.E.\*, Ottaway, N.\*, Holland, J.\*, Raver, C.\*, Bartley, E.\*, Müller, T.D., Pfluger, P.T., Berger, J.\*, Toure, M.\*, Benoit, S.C.\*, DiMarchi, R.D.\*, Perez-Tilve, D.\*, D'Alessio, D.A.\*, Seeley, R.J.\*, Tschöp, M.H.: GLP-1R responsiveness predicts individual gastric bypass efficacy on glucose tolerance in rats. *Diabetes* **63**, 505-513 (2014) [published online 2013]

Häbig, K.\*, Gellhaar, S.\*, Heim, B.\*, Djuric, V.\*, Giesert, F.H.H., Wurst, W., Walter, C.\*, Hentrich, T.\*, Riess, O.\*, Bonin, M.\*: LRRK2 guides the actin cytoskeleton at growth cones together with ARHGEF7 and Tropomyosin 4. *Biochim. Biophys. Acta-Mol. Basis Dis.* **1832**, 2352-2367 (2013)

Hahn, K.R., Myers, N.\*, Prigarin, S.M.\*, Rodenacker, K., Kurz, A.\*, Förstl, H.\*, Zimmer, C.\*, Wohlschläger, A.M.\*, Sorg, C.\*: Selectively and progressively disrupted structural connectivity of functional brain networks in Alzheimer's disease - Revealed by a novel framework to analyze edge distributions of networks detecting disruptions with strong statistical evidence. *Neuroimage* **81**, 96-109 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

Hajiaboli, A.\*, Kellnberger, S., Ntziachristos, V., Razansky, D.: Design and time-domain analysis of a high-voltage impulsed test-bed for near-field thermoacoustic tomography. *Prog. Electromagn. Res.* **139**, 105-119 (2013)

Halama, A., Riesen, N., Hrabé de Angelis, M., Adamski, J.: Identification of biomarkers for apoptosis in cacncer cell lines using metabolomics: Tolls for individualized medicine. *J. Intern. Med.* **274**, 425-439 (2013)

Harlaar, N.J., Kelder, W., Sarantopoulos, A., Bart, J.\*, Themelis, G., van Dam, G.M.\*, Ntziachristos, V.: Real-time Near Infrared Fluorescence (NIRF) intra-operative imaging in ovarian cancer using an  $\alpha_v \beta_3$  integrin targeted agent. *Gynecol. Oncol.* **128**, 590-595 (2013)

Harsunen, M.H., Puff, R., D'Orlando, O., Giannopoulou, E., Lachmann, L., Beyerlein, A., von Meyer, A.\*, Ziegler, A.-G.: Reduced blood leukocyte and neutrophil numbers in the pathogenesis of type 1 diabetes. *Horm. Metab. Res.* **46**, 467-470 (2013)

Hartig, M.\*, Prokisch, H., Meitinger, T., Klopstock, T.\*: Mitochondrial Membrane Protein-Associated Neurodegeneration (MPAN). *Int. Rev. Neurobiol.* **110**, 73-84 (2013)

Hartwig, S.\*, Raschke, S.\*, Knebel, B.\*, Scheler, M., Irmler, M., Passlack, W.\*, Müller, S.\*, Hanisch, F.-G.\*, Franz, Z.\*, Li, X.\*, Dicken, H.D.\*, Eckardt, K.\*, Beckers, J., Hrabé de Angelis, M., Weigert, C., Häring, H.-U., Al-Hasani, H.\*, Ouwens, D.M.\*, Eckel, J.\*, Kotzka, J.\*, Lehr, S.\*: Secretome profiling of primary human skeletal muscle cells. *BBA-Proteins Proteomics*, DOI:10.1016/j.bbapap.2013.08.004 (2013)

Hasenauer, J., Schittler, D.\*, Allgöwer, F.\*: Analysis and simulation of division- and label-structured population models. A new tool to analyze proliferation assays. *Bull. Math. Biol.* **74**, 2692-2732 (2012)

Hasenauer, J., Wolf, V.\*, Kazeroonian, A., Theis, F.J.: Method of Conditional Moments (MCM) for the Chemical Master Equation: A unified framework for the method of moments and hybrid stochastic-deterministic models. *J. Math. Biol.*, DOI:10.1007/s00285-013-0711-5 (2013)

Hayflick, S.J.\*, Kruer, M.C.\*, Gregory, A.\*, Haack, T.B., Kurian, M.A.\*, Houlden, H.H.\*, Anderson, J.\*, Boddaert, N.\*, Sanford, L.\*, Harik, S.I.\*, Dandu, V.H.\*, Nardocci, N.\*, Zorzi, G.\*, Dunaway, T.\*, Tarnopolsky, M.\*, Skinner, S.\*, Holden, K.R.\*, Frucht, S.\*, Hanspal, E.\*, Schrander-Stumpel, C.\*, Mignot, C.\*, Heron, D.\*, Saunders, D.E.\*, Kaminska, M.\*, Lin, J.P.\*, Lascelles, K.\*, Cuno, S.M., Meyer, E.\*, Garavaglia, B.\*, Bhatia, K.\*, de Silva, R.\*, Crisp, S.\*, Lunt, P.\*, Carey, M.\*, Hardy, J.\*, Meitinger, T., Prokisch, H., Hogarth, P.\*: Beta-propeller protein-associated neurodegeneration: A new X-linked dominant disorder with brain iron accumulation. *Brain* 136, 1708-1717 (2013)

Heinrich, S.\*, Geissen, E.M.\*, Kamenz, J.\*, Trautmann, S.\*, Widmer, C.\*, Drewe, P.\*, Knop, M.\*, Radde, N.\*, Hasenauer, J., Hauf, S.\*: Determinants of robustness in spindle assembly checkpoint signalling. *Nat. Cell Biol.* **15**, 1328-1239 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

Heni, M.\*, Kullmann, S., Ketterer, C.\*, Guthoff, M.\*, Bayer, M.\*, Staiger, H., Machicao, F.\*, Häring, H.-U., Preissl, H., Veit, R.\*, Fritsche, A.: Differential effect of glucose ingestion on the neural processing of food stimuli in lean and overweight adults. *Hum. Brain Mapp.* **35**, 918–928 (2014) [published online 2013]

Heni, M., Kullmann, S., Preissl, H., Häring, H.-U.: Insulinwirkung im menschlichen Gehirn. *Diabetologe* **9**, 444-448 (2013)

Heni, M.\*, Wagner, R.\*, Ketterer, C., Böhm, A., Linder, K., Machicao, F., Machann, J., Schick, F., Hennige, A.M., Stefan, N., Häring, H.-U., Fritsche, A., Staiger, H.: Genetic variation in *NR1H4* encoding the bile acid receptor FXR determines fasting glucose and free fatty acid levels in humans. *J. Clin. Endocrinol. Metab.* **98**, E1224-E1229 (2013)

Heninger, A.K.\*, Monti, P.\*, Wilhelm, C.\*, Schwaiger, P.\*, Kuehn, D.\*, Ziegler, A.-G., Bonifacio, E.\*: Activation of islet autoreactive naive T cells in infants is influenced by homeostatic mechanisms and antigen presenting capacity. *Diabetes* **62**, 2059-2066 (2013)

Hennig, J., Wang, I., Sonntag, M., Gabel, F.\*, Sattler, M.: Combining NMR and small angle X-ray and neutron scattering in the structural analysis of a ternary protein-RNA complex. *J. Biomol. NMR* **56**, 17-30 (2013)

Heppner, K.M.\*, Piechowski, C.L.\*, Müller, A.\*, Ottaway, N.\*, Sisley, S.\*, Smiley, D.L.\*, Habegger, K.M.\*, Pfluger, P.T., DiMarchi, R.\*, Biebermann, H.\*, Tschöp, M.H., Sandoval, D.A.\*, Perez-Tilve, D.\*: Both acyl and des-acyl ghrelin regulate adiposity and glucose metabolism via CNS ghrelin receptors. *Diabetes* **63**, 122-131 (2014) [published online 2013]

Heym, R.G., Zimmermann, D.\*, Edelmann, F.T., Israel, L.\*, Ökten, Z.\*, Kovar, D.R.\*, Niessing, D.: *In vitro* reconstitution of an mRNA-transport complex reveals mechanisms of assembly and motor activation. *J. Cell Biol.* **203**, 971-984 (2013)

Hiepe, P.\*, Herrmann, K.H.\*, Güllmar, D.\*, Ros, C.\*, Siebert, T.\*, Blickhan, R.\*, Hahn, K., Reichenbach, J.R.\*: Fast low-angle shot diffusion tensor imaging with stimulated echo encoding in the muscle of rabbit shank. *NMR Biomed.* **27**, 146–157 (2014) [published online 2013]

Hildick-Smith, G.J.\*, Cooney, J.D.\*, Garone, C.\*, Kremer, L.S., Haack, T.B., Thon, J.N.\*, Miyata, N.\*, Lieber, D.S.\*, Calvo, S.E.\*, Akman, H.O.\*, Yien, Y.Y.\*, Huston, N.C.\*, Branco, D.S.\*, Shah, D.I.\*, Freedman, M.L.\*, Koehler, C.M.\*, Italiano, J.E.\*, Merkenschlager, A.\*, Beblo, S.\*, Strom, T.-M., Meitinger, T., Freisinger, P.\*, Donati, M.A.\*, Prokisch, H., Mootha, V.K.\*, DiMauro, S.\*, Paw, B.H.\*: Macrocytic anemia and mitochondriopathy resulting from a defect in sideroflexin 4. *Am. J. Hum. Genet.* **93**, 906-914 (2013)

Hochrath, K.\*, Ehnert, S.\*, Ackert-Bicknell, C.L.\*, Lau, Y.\*, Schmid, A.\*, Krawczyk, M.\*, Hengstler, J.G.\*, Dunn, J.\*, Hiththetiya, K.\*, Rathkolb, B., Micklich, K.\*, Hans, W., Fuchs, H., Gailus-Durner, V., Wolf, E.\*, Hrabé de Angelis, M., Dolley, S.\*, Paigen, B.\*, Wildemann, B.\*, Lammert, F.\*, Nüssler, A.K.\*: Modeling hepatic osteodystrophy in *Abcb4* deficient mice. *Bone* **55**, 501-511 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

Hock, S., Hasenauer, J., Theis, F.J.: Modeling of 2D diffusion processes based on microscopy data: Parameter estimation and practical identifiability analysis. *BMC Bioinformatics* **14**:S7 (2013)

Hock, S., Ng, Y.K., Hasenauer, J., Wittmann, D.M.\*, Lutter, D., Trümbach, D., Wurst, W., Prakash, N., Theis, F.J.: Sharpening of expression domains induced by transcription and microRNA regulation within a spatio-temporal model of mid-hindbrain boundary formation. *BMC Syst. Biol.* **7**:48 (2013)

Hocking, H.G., Zangger, K.\*, Madl, T.: Studying the structure and dynamics of biomolecules by using soluble paramagnetic probes. *ChemPhysChem* **14**, 3082-3094 (2013)

Hoene, M., Runge, H.\*, Häring, H.-U., Schleicher, E.D., Weigert, C.: Interleukin-6 promotes myogenic differentiation of mouse skeletal muscle cells: Role of the STAT3 pathway. *Am. J. Physiol.-Cell Physiol.* **304**, 128-136 (2013)

Hoff, S.\*, Halbritter, J.\*, Epting, D.\*, Frank, V.\*, Nguyen, T.M.\*, van Reeuwijk, J.\*, Boehlke, C.\*, Schell, C.\*, Yasunaga, T.\*, Helmstädter, M.\*, Mergen, M.\*, Filhol, E.\*, Boldt, K.\*, Horn, N.\*, Ueffing, M., Otto, E.A.\*, Eisenberger, T.\*, Elting, M.W.\*, van Wijk, J.A.\*, Bockenhauer, D.\*, Sebire, N.J.\*, Rittig, S.\*, Vyberg, M.\*, Ring, T.\*, Pohl, M.\*, Pape, L.\*, Neuhaus, T.J.\*, Elshakhs, N.A.\*, Koon, S.J.\*, Harris, P.C.\*, Grahammer, F.\*, Huber, T.B.\*, Kuehn, E.W.\*, Kramer-Zucker, A.\*, Bolz, H.J.\*, Roepman, R.\*, Saunier, S.\*, Walz, G.\*, Hildebrandt, F.\*, Bergmann, C.\*, Lienkamp, S.S.\*: ANKS6 is a central component of a nephronophthisis module linking NEK8 to INVS and NPHP3. *Nat. Genet.* **45**, 951-956 (2013)

Hohenauer, Z.\*, Berking, C.\*, Schmidt, A.\*, Haferkamp, S.\*, Senft, D.\*, Kammerbauer, C.\*, Fraschka, S.\*, Graf, S.A.\*, Irmler, M., Beckers, J., Flaig, M.\*, Aigner, A.\*, Höbel, S.\*, Hoffmann, F.\*, Hermeking, H.\*, Rothenfusser, S.\*, Endres, S.\*, Ruzicka, T.\*, Besch, R.\*: The neural crest transcription factor Brn3a is expressed in melanoma and required for cell cycle progression and survival. *EMBO Mol. Med.* **5**, 919-934 (2013)

Hölter, S.M., Stromberg, M.\*, Kovalenko, M.\*, Garrett, L., Glasl, L., Lopez, E.\*, Guide, J.\*, Götz, A., Hans, W., Becker, L., Rathkolb, B., Rozman, J., Schrewe, A.\*, Klingenspor, M.\*, Klopstock, T.\*, Schulz, H., Wolf, E.\*, Wurst, W., Gillis, T.\*, Wakimoto, H.\*, Seidmann, J.\*, MacDonald, M.E.\*, Cotman, S.L.\*, Gailus-Durner, V., Fuchs, H., Hrabé de Angelis, M., Lee, J.M.\*, Wheeler, V.C.\*: A broad phenotypic screen identifies novel phenotypes driven by a single mutant allele in Huntington's diesease CAG knock-in mice. *PLoS ONE* 8:e80923 (2013)

Hopfner, F., Schulte, E.C., Mollenhauer, B.\*, Bereznai, B.\*, Knauf, F., Lichtner, P., Zimprich, A.\*, Haubenberger, D.\*, Pirker, W.\*, Brücke, T.\*, Peters, A., Gieger, C., Kuhlenbäumer, G.\*, Trenkwalder, C.\*, Winkelmann, J.: The role of *SCARB2* as susceptibility factor in Parkinson's disease. *Mov. Disord.* **28**, 538-540 (2013)

Hotze, M.\*, Baurecht, H.\*, Rodriguez, H.\*, Chapman-Rothe, N.\*, Ollert, M.\*, Fölster-Holst, R.\*, Adamski, J., Illig, T.\*, Ring, J.\*, Weidinger, S.\*: Increased efficacy of omalizumab in atopic dermatitis patients with wild-type filaggrin status and higher serum levels of phosphatidycholines. *Allergy* **69**, 132-135 (2014) [published online 2013]

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

Hug, S., Raue, A., Hasenauer, J., Bachmann, J.\*, Klingmüller, U.\*, Timmer, J.\*, Theis, F.J.: High-dimensional Bayesian parameter estimation: Case study for a model of JAK2/STAT5 signaling. *Math. Biosci.* **246**, 293-304 (2013)

Isensee, J.\*, Diskar, M.\*, Waldherr, S.\*, Buschow, R.\*, Hasenauer, J., Prinz, A.\*, Allgöwer, F.\*, Herberg, F.W.\*, Hucho, T.\*: Pain modulators regulate the dynamics of PKA-RII phosphorylation in subgroups of sensory neurons. *J. Cell Sci.* **127**, 216-229 (2014) [published online 2013]

Ishikawa, T.\*, Sato, A.\*, Marcou, C.A.\*, Tester, D.J.\*, Ackerman, M.J.\*, Crotti, L., Schwartz, P.J.\*, On, Y.K.\*, Park, J.E.\*, Nakamura, K.\*, Hiraoka, M.\*, Nakazawa, K.\*, Sakurada, H.\*, Arimura, T.\*, Makita, N.\*, Kimura, A.\*: A novel disease gene for Brugada syndrome: Sarcolemmal membrane-associated protein gene mutations impair intracellular trafficking of hNav1.5. *Circ.-Arrhythmia Electrophysiol.* **5**, 1098-1107 (2012)

Iskar, M.\*, Zeller, G.\*, Blattmann, P.\*, Campillos, M., Kuhn, M.\*, Kaminska, K.H.\*, Runz, H.\*, Gavin, A.C.\*, Pepperkok, R.\*, van Noort, V.\*, Bork, P.\*: Characterization of drug-induced transcriptional modules: Towards drug repositioning and functional understanding. *Mol. Syst. Biol.* **9**:662 (2013)

Ispiryan, R., Grigoriev, I., zu Castell, W., Schäffner, A.R.: A segmentation procedure using colour features applied to images of *Arabidopsis thaliana*. *Funct. Plant Biol.* **40**, 1065-1075 (2013)

Ivankov, D.N.\*, Payne, S.H.\*, Galperin, M.Y.\*, Bonissone, S.\*, Pevzner, P.A.\*, Frishman, D.: How many signal peptides are there in bacteria? *Environ. Microbiol.* **15**, 983-990 (2013)

Iwen, K.A.\*, Scherer, T.\*, Heni, M., Sayk, F.\*, Wellnitz, T.\*, Machleidt, F.\*, Preissl, H., Häring, H.-U., Fritsche, A., Lehnert, H.\*, Büttner, C.\*, Hallschmid, M.: Intranasal insulin suppresses systemic but not subcutaneous lipolysis in healthy humans. *J. Clin. Endocrinol. Metab.* **99**, E246-E251 (2014) [published online 2013]

Jansen, S.\*, Aigner, B.\*, Pausch, H.\*, Wysocki, M.\*, Eck, S., Benet-Pagès, A., Graf, E., Wieland, T., Strom, T.-M., Meitinger, T., Fries, R.\*: Assessment of the genomic variation in a cattle population by re-sequencing of key animals at low to medium coverage. *BMC Genomics* **14**:446 (2013)

Jaremek, M., Yu, Z., Mangino, M.\*, Mittelstrass, K., Prehn, C., Singmann, P., Xu, T., Dahmen, N.\*, Weinberger, K.M.\*, Suhre, K., Peters, A., Döring, A., Hauner, H.\*, Adamski, J., Illig, T., Spector, T.D.\*, Wang-Sattler, R.: Alcohol-induced metabolomic differences in humans. *Transl. Psychiatry* **3**:e276 (2013)

Jiang, S.N.\*, Park, S.H.\*, Lee, H.J.\*, Zheng, J.H.\*, Kim, H.S.\*, Bom, H.S.\*, Hong, Y.\*, Szardenings, M.\*, Shin, M.G.\*, Kim, S.C.\*, Ntziachristos, V., Choy, H.E.\*, Min, J.J.\*: Engineering of bacteria for the visualization of targeted delivery of a cytolytic anticancer agent. *Mol. Ther.* **21**, 1985-1995 (2013)

Johansson, P.A., Irmler, I., Acampora, D.\*, Beckers, J., Simeone, A.\*, Götz, M.: The transcription factor Otx2 regulates choroid plexus development and function. *Development* **140**, 1055-1066 (2013)

German Research Center for Environmental Health

### Publication List 2013

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

Jordaan, K.\*, Toókos, F.: Orthogonality and asymptotics of Pseudo-Jacobi polynomials for non-classical parameters. *J. Approx. Theory* **178**, DOI:10.1016/j.jat.2013.10.003 (2014)

Ju, L.\*, Taylor, E.\*, Brandt, R.\*, Slijepcevic, P.\*, Horsch, M., Rathkolb, B., Rácz, I., Becker, L., Hans, W., Adler, T., Beckers, J., Rozman, J., Klingenspor, M.\*, Wolf, E.\*, Zimmer, A.\*, Klopstock, T.\*, Busch, D.H.\*, Gailus-Durner, V., Fuchs, H., Hrabé de Angelis, M., van der Horst, G.\*, Lehmann, A. R.\*: *SMC6* is an essential gene in mice, but a hypomorphic mutant in the ATPase domain has a mild phenotype with a range of subtle abnormalities. *DNA Repair* **12**, 356-366 (2013)

Kadam, R.U.\*, Garg, D., Schwartz, J.\*, Visini, R.\*, Sattler, M., Stocker, A.\*, Darbre, T.\*, Reymond, J.L.\*: CH-π "T-shape" interaction with histidine explains binding of aromatic galactosides to *Pseudomonas aeruginosa* lectin LecA. *ACS Chem. Biol.* **8**, 1925-1930 (2013)

Kadam, R.U.\*, Bergmann, M.\*, Garg, D., Gabrieli, G.\*, Stocker, A.\*, Darbre, T.\*, Reymond, J.L.\*: Structure-based optimization of the terminal tripeptide in glycopeptide dendrimer inhibitors of *Pseudomonas aeruginosa* biofilms targeting LecA. *Chemistry* **19**, 17054-17063 (2013)

Kaiser, G., Gerst, F., Michael, D.\*, Berchtold, S.\*, Friedrich, B.\*, Strutz-Seebohm, N.\*, Lang, F.\*, Häring, H.-U., Ullrich, S.: Regulation of Forkhead box O1 (FOXO1) by protein kinase B and glucocorticoids: Different mechanisms of induction of beta cell death *in vitro*. *Diabetologia* **56**, 1587-1595 (2013)

Kang, C.B.\*, Ye, H.\*, Chia, J.\*, Choi, B.H.\*, Dhe-Paganon, S.\*, Simon, B.\*, Schütz, U., Sattler, M., Yoon, H.S.\*: Functional role of the flexible N-terminal extension of FKBP38 in catalysis. *Sci. Rep.* **3**:2985 (2013)

Kateb, F., Perrin, H.\*, Tripsianes, K., Zou, P., Spadaccini, R.\*, Bottomley, M.\*, Franzmann, T.M.\*, Buchner, J.\*, Ansieau, S.\*, Sattler, M.: Structural and functional analysis of the DEAF-1 and BS69 MYND domains. *PLoS ONE* **8**:e54715 (2013)

Katouzian, A.\*, Karamalis, A.\*, Sheet, D.\*, Konofagou, E.\*, Baseri, B.\*, Carlier, S.G.\*, Eslami, A., König, A.\*, Navab, N.\*, Laine, A.F.\*: Iterative self-organizing atherosclerotic tissue labeling in intravascular ultrasound images and comparison with virtual histology. *IEEE T. Bio-Med. Eng.* **59**, 3039-3049 (2012)

Kellnberger, S., Omar, M., Sergiadis, G.\*, Ntziachristos, V.: Second harmonic acoustic responses induced in matter by quasi continuous radiofrequency fields. *Appl. Phys. Lett.* **103**:153706 (2013)

Kemter, E.\*, Prückl. P.\*, Rathkolb, B., Micklich, K., Adler, T., Becker, L., Beckers, J., Busch, D.H.\*, Götz, A., Hans, W., Horsch, M., Ivandic, B.\*, Klingenspor, M.\*, Klopstock, T.\*, Rozman, J., Schrewe, A., Schulz, H., Fuchs, H., Gailus-Durner, V., Hrabé de Angelis, M., Wolf, E.\*, Aigner, B.\*: Standardized, systemic phenotypic analysis of *Umod*<sup>C93F</sup> and *Umod*<sup>A227T</sup> mutant mice. *PLoS ONE* 8:e78337 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

#### **Systemic Analysis of Multifactorial Diseases**

Kemter, E.\*, Prueckl, P.\*, Sklenak, S.\*, Rathkolb, B., Habermann, F.A.\*, Hans, W., Gailus-Durner, V., Fuchs, H., Hrabé de Angelis, M., Wolf, E.\*, Aigner, B.\*, Wanke, R.\*: Type of uromodulin mutation and allelic status influence onset and severity of uromodulin-associated kidney disease in mice. *Hum. Mol. Genet.* **22**, 4148-4163 (2013)

Keuper, M., Jastroch, M., Yi, C.-X., Fischer-Posovszky, P.\*, Wabitsch, M.\*, Tschöp, M.H., Hofmann, S.M.: Spare mitochondrial respiratory capacity permits human adipocytes to maintain ATP homeostasis under hypoglycemic conditions. *FASEB J.* **28**, 761-770 (2014) [published online 2013]

Kijanka, M.\*, Warnders, F.-J.\*, El Khattabi, M.\*, Lub-de Hooge, M.\*, van Dam, G.M.\*, Ntziachristos, V., de Vries, L.\*, Oliveira, S.\*, van Bergen en Henegouwen, P.M.\*: Rapid optical imaging of human breast tumour xenografts using anti-HER2 VHHs site-directly conjugated to IRDye 800CW for image-guided surgery. *Eur. J. Nucl. Med. Mol. Imaging* **40**, 1718-1729 (2013)

Kirchner, H.\*, Heppner, K.M.\*, Holland, J.\*, Kabra, D., Tschöp, M.H., Pfluger, P.T.: Ablation of ghrelin O-acyltransferase does not improve glucose intolerance or body adiposity in mice on a leptin-deficient ob/ob background. *PLoS ONE* **8**:e61822 (2013)

Kirişli, H.A.\*, Schaap, M.\*, Metz, C.T.\*, Dharampal, A.S.\*, Meijboom, W.B.\*, Papadopoulou, S.L.\*, Dedic, A.\*, Nieman, K.\*, de Graaf, M.A.\*, Meijs, M.F.L.\*, Cramer, M.J.\*, Broersen, A.\*, Cetin, S.\*, Eslami, A., Flórez-Valencia, L.\*, Lor, K.L.\*, Matuszewski, B.\*, Melki, I.\*, Mohr, B.\*, Öksüz, I.\*, Shahzad, R.\*, Wang, C.\*, Kitslaar, P.H.\*, Unal, G.\*, Katouzian, A.\*, Orkisz, M.\*, Chen, C.M.\*, Precioso, F.\*, Najman, L.\*, Masood, S.\*, Ünay, D.\*, van Vliet, L.\*, Moreno, R.\*, Goldenberg, R.\*, Vucini, E.\*, Krestin, G.P.\*, Niessen, W.J.\*, van Walsum, T.\*: Standardized evaluation framework for evaluating coronary artery stenosis detection, stenosis quantification and lumen segmentation algorithms in computed tomography angiography. *Med. Image Anal.* **17**, 859-876 (2013)

Klement, J.\*, Pais, I.\*, Strube, J.\*, Lehnert, H.\*, Peters, A.\*, Hallschmid, M., Born, J.: NMDA receptor blockade by memantine does not prevent adaptation to recurrent hypoglycaemia in healthy men. *Diabetes Obes. Metab.* **15**, 310-315 (2013)

Kopanitsa, G., Hildebrand, C., Stausberg, J.\*, Englmeier, K.H.: Visualization of medical data based on EHR standards. *Methods Inf. Med.* **52**, 43-50 (2013)

Kornblum, C.\*, Nicholls, T.J.\*, Haack, T.B., Schöler, S.\*, Peeva, V.\*, Danhauser, K., Hallmann, K.\*, Zsurka, G.\*, Rorbach, J.\*, Iuso, A., Wieland, T., Sciacco, M.\*, Ronchi, D.\*, Comi, G.P.\*, Moggio, M.\*, Quinzii, C.M.\*, DiMauro, S.\*, Calvo, S.E.\*, Mootha, V.K.\*, Klopstock, T.\*, Strom, T.-M., Meitinger, T., Minczuk, M.\*, Kunz, W.S.\*, Prokisch, H.: Loss-of-function mutations in *MGME1* impair mtDNA replication and cause multisystemic mitochondrial disease. *Nat. Genet.* **45**, 214-219 (2013)

Kranis, A.\*, Gheyas, A.A.\*, Boschiero, C.\*, Turner, F.\*, Yu, L.\*, Smith, S.\*, Talbot, R.\*, Pirani, A.\*, Brew, F.\*, Kaiser, P.\*, Hocking, P.M.\*, Fife, M.\*, Salmon, N.\*, Fulton, J.\*, Strom, T.-M., Haberer, G., Weigend, S.\*, Preisinger, R.\*, Gholami, M.\*, Qanbari, S.\*, Simianer, H.\*, Watson, K.A.\*, Woolliams, J.A.\*, Burt, D.W.\*: Development of a high density 600K SNP genotyping array for chicken. *BMC Genomics* **14**:59 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-03-07

\* external authors are starred

## **Systemic Analysis of Multifactorial Diseases**

Kratzer, S.\*, Mattusch, C.\*, Metzger, M.W.\*, Dedic, N., Noll-Hussong, M.\*, Kafitz, K.W.\*, Eder, M.\*, Deussing, J.M., Holsboer, F.\*, Kochs, E.\*, Rammes, G.\*: Activation of CRH receptor type 1 expressed on glutamatergic neurons increases excitability of CA1 pyramidal neurons by the modulation of voltage-gated ion channels. *Front. Cell. Neurosci.* **7**:91 (2013)

Kreutz, C.\*, Raue, A., Kaschek, D.\*, Timmer, J.\*: Profile likelihood in systems biology. *FEBS J.* **280**, 2564-2571 (2013)

Kugler, J.E.\*, Horsch, M., Huang, D.\*, Furusawa, T.\*, Rochman, M.\*, Garrett, L., Becker, L., Bohla, A., Hölter, S.M., Prehn, C., Rathkolb, B., Rácz, I.\*, Aguilar-Pimentel, J.A., Adler, T., Adamski, J., Beckers, J., Busch, D.H.\*, Eickelberg, O., Klopstock, T.\*, Ollert, M.\*, Stöger, T., Wolf, E.\*, Wurst, W., Yildirim, A.Ö., Zimmer, A.\*, Gailus-Durner, V., Fuchs, H., Hrabé de Angelis, M., Garfinkel B.\*, Orly, Y.\*, Ovcharenko, I.\*, Bustin, M.\*: High mobility group N proteins modulate the fidelity of the cellular transcriptional profile in a tissue- and variant-specific manner. *J. Biol. Chem.* **288**, 16690-16703 (2013)

Kuo, D.S.\*, Labelle-Dumais, C.\*, Mao, M.\*, Jeanne, M.\*, Kauffman, W.B.\*, Allen, J.\*, Favor, J., Gould, D.B.\*: Allelic heterogeneity contributes to variability in ocular dysgenesis, myopathy and brain malformations caused by *Col4a1* and *Col4a2* mutations. *Hum. Mol. Genet.* **23**, 1709-1722 (2014) [published online 2013]

Kutschke, M., Grimpo, K.\*, Kastl, A.\*, Schneider, S.\*, Heldmaier, G.\*, Exner, C.\*, Jastroch, M.: Depression of mitochondrial respiration during daily torpor of the Djungarian hamster, *Phodopus sungorus*, is specific for liver and correlates with body temperature. *Comp. Biochem. Physiol. A-Mol. Integr. Physiol.* **164**, 584-589 (2013)

Lappalainen, T.\*, Sammeth, M.\*, Friedländer, M.R.\*, 't Hoen, P.A.\*, Monlong, J.\*, Rivas, M.A.\*, Gonzàlez-Porta, M.\*, Kurbatova, N.\*, Griebel, T.\*, Ferreira, P.G.\*, Barann, M.\*, Wieland, T., Greger, L.\*, van Iterson, M.\*, Almlöf, J.\*, Ribeca, P.\*, Pulyakhina, I.\*, Esser, D.\*, Giger, T.\*, Tikhonov, A.\*, Sultan, M.\*, Bertier, G.\*, MacArthur, D.G.\*, Lek, M.\*, Lizano, E.\*, Buermans, H.P.\*, Padioleau, I.\*, Schwarzmayr, T., Karlberg, O.\*, Ongen, H.\*, Kilpinen, H.\*, Beltran, S.\*, Gut, M.\*, Kahlem, K.\*, Amstislavskiy, V.\*, Stegle, O.\*, Pirinen, M.\*, Montgomery, S.B.\*, Donnelly, P.\*, McCarthy, M.I.\*, Flicek, P.\*, Strom, T.-M., Geuvadis Consortium, Lehrach, H.\*, Schreiber, S.\*, Sudbrak, R.\*, Carracedo, A.\*, Antonarakis, S.E.\*, Häsler, R.\*, Syvanen, A.C.\*, van Ommen, G.J.\*, Brazma, A.\*, Meitinger, T., Rosenstiel, P.\*, Guigo, R.\*, Gut, I.G.\*, Estivill, X.\*, Dermitzakis, E.T.\*: Transcriptome and genome sequencing uncovers functional variation in humans. *Nature* **501**, 506-511 (2013)

Lasser, R.: Almost-convergent sequences with respect to polynomial hypergroups. *Acta Math. Hung.* **138**, 127-139 (2013)

Lasser, R., Obermaier, J., Wagner, J.\*: On the spectrum of tridiagonal operators and the support of orthogonalization measures. *Arch. Math.* **100**, 289-299 (2013)

Lasser, R., Obermaier, J.: Strongly invariant means on commutative hypergroups. *Colloq. Math.* **129**, 119-131 (2012)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

## **Systemic Analysis of Multifactorial Diseases**

Lee, H.S.\*, Briese, T.\*, Winkler, C., Rewers, M.\*, Bonifacio, E.\*, Hyoty, H.\*, Pflueger, M., Simell, O.\*, She, J.X.\*, Hagopian, W.\*, Lernmark, A.\*, Akolkar, B.\*, Krischer, J.P.\*, Ziegler, A.-G., TEDDY Study Group: Next-generation sequencing for viruses in children with rapid-onset type 1 diabetes. *Diabetologia* **56**, 1705-1711 (2013)

Lehmann, R.\*, Franken, H.\*, Dammeier, S.\*, Rosenbaum, L.\*, Kantartzis, K.\*, Peter, A.\*, Tell, A.\*, Adam, P.\*, Li, J.\*, Xu, G.\*, Königsrainer, A.\*, Machann, J.\*, Schick, F.\*, Hrabé de Angelis, M., Schwab, M.\*, Staiger, H.\*, Schleicher, E.\*, Gastaldelli, A.\*, Fritsche, A.\*, Häring, H.-U.\*, Stefan, N.\*: Circulating lysophosphatidylcholines are markers of a metabolically benign nonalcoholic fatty liver. *Diabetes Care* **36**, 2331-2338 (2013)

Lehti, M., Donelan, E.\*, Abplanalp, W.\*, Al-Massadi, O.\*, Habegger, K.M.\*, Weber, J.\*, Ress, C.\*, Mansfeld, J.\*, Somvanshi, S.\*, Trivedi, C.\*, Keuper, M., Ograjsek, T., Striese, C., Cucuruz, S., Pfluger, P.T., Krishna, R.\*, Gordon, S.M.\*, Silva, R.A.\*, Luquet, S.\*, Castel, J.\*, Martinez, S.\*, D'Alessio, D.\*, Davidson, W.S.\*, Hofmann, S.M.: High-density lipoprotein maintains skeletal muscle function by modulating cellular respiration in mice. *Circulation* **128**, 2364-2371 (2013)

Li, J.\*, Hoene, M., Zhao, X.J.\*, Chen, S.L.\*, Wei, H.\*, Häring, H.-U., Lin, X.H.\*, Zeng, Z.D.\*, Weigert, C., Lehmann, R., Xu, G.W.\*: Stable isotope-assisted lipidomics combined with nontargeted isotopomer filtering, a tool to unravel the complex dynamics of lipid metabolism. *Anal. Chem.* **85**, 4651-4657 (2013)

Li, W.\*, Tsen, F.\*, Sahu, D.\*, Bhatia, A.\*, Chen, M.\*, Multhoff, G., Woodley, D.T.\*: Extracellular Hsp90 (eHsp90) as the actual target in clinical trials: Intentionally or unintentionally. *Int. Rev. Cell Mol. Biol.* **303**, 203-235 (2013)

Lim, C.T.\*, Kola, B.\*, Feltrin, D.\*, Perez-Tilve, D.\*, Tschöp, M.H., Grossman, A.B.\*, Korbonits, M.\*: Ghrelin and cannabinoids require the ghrelin receptor to affect cellular energy metabolism. *Mol. Cell. Endocrinol.* **365**, 303-308 (2013)

Lin, S.-X.\*, Poirier, D.\*, Adamski, J.: A challenge for medicinal chemistry by the 17β-hydroxysteroid dehydrogenase superfamily: An integrated biological function and inhibition study. *Curr. Top. Med. Chem.* **13**, 1164-1171 (2013)

Lipina, C.\*, Macrae, K.\*, Suhm, T.\*, Weigert, C., Blachnio-Zabielska, A.\*, Baranowski, M.\*, Gorski, J.\*, Burgess, K.\*, Hundal, H.S.\*: Mitochondrial substrate availability and its role in lipid-induced insulin resistance and proinflammatory signaling in skeletal muscle. *Diabetes* **62**, 3426-3436 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

## **Systemic Analysis of Multifactorial Diseases**

Liu, J.Z.\*, Hov, J.R.\*, Folseraas, T.\*, Ellinghaus, E.\*, Rushbrook, S.M.\*, Doncheva, N.T.\*, Andreassen, O.A.\*, Weersma, R.K.\*, Weismuller, T.J.\*, Eksteen, B.\*, Invernizzi, P.\*, Hirschfield, G.M.\*, Gotthardt, D.N.\*, Pares, A.\*, Ellinghaus, D.\*, Shah, T.\*, Juran, B.D.\*, Milkiewicz, P.\*, Rust, C.\*, Schramm, C.\*, Müller, T.\*, Srivastava, B.\*, Dalekos, G.\*, Nöthen, M.M.\*, Herms, S.\*, Winkelmann, J., Mitrovic, M.\*, Braun, F.\*, Ponsioen, C.Y.\*, Croucher, P.J.P.\*, Sterneck, M.\*, Teufel, A.\*, Mason, A.L.\*, Saarela, J.\*, Leppä, V.\*, Dorfman, R.\*, Alvaro, D.\*, Floreani, A.\*, Onengut-Gumuscu, S.\*, Rich, S.S.\*, Thompson, W.K.\*, Schork, A.J.\*, Naess, S.\*, Thomsen, I.\*, Mayr, G.\*, König, I.R.\*, Hveem, K.\*, Cleynen, I.\*, Gutierrez-Achury, J.\*, Ricano-Ponce, I.\*, van Heel, D.\*, Björnsson, E.\*, Sandford, R.N.\*, Durie, P.R.\*, Melum, E.\*, Vatn, M.H.\*, Silverberg, M.S.\*, Duerr, R.H.\*, Padyukov, L.\*, Brand, S.\*, Sans, M.\*, Annese, V.\*, Achkar, J.P.\*, Boberg, K.M.\*, Marschall, H.U.\*, Chazouilleres, O.\*, Bowlus, C.L.\*, Wijmenga, C.\*, Schrumpf, E.\*, Vermeire, S.\*, Albrecht, M.\*, Rioux, J.D.\*, Alexander, G.\*, Bergquist, A.\*, Cho, J.\*, Schreiber, S.\*, Manns, M.P.\*, Färkkilä, M.\*, Dale, A.M.\*, Chapman, R.W.\*, Lazaridis, K.N.\*, Franke, A.\*, Anderson, C.A.\*, Karlsen, T.H.\*: Dense genotyping of immune-related disease regions identifies nine new risk loci for primary sclerosing cholangitis. *Nat. Genet.* **45**, 670-675 (2013)

Liu, X., Vogt, I., Haque, T., Campillos, M.: HitPick: A web server for hit identification and target prediction of chemical screenings. *Bioinformatics* **29**, 1910-1912 (2013)

Lopez del Amo, J.M., Schneider, D.\*, Loquet, A.\*, Lange, A.\*, Reif, B.: Cryogenic solid state NMR studies of fibrils of the Alzheimer's disease amyloid-β peptide: Perspectives for DNP. *J. Biomol. NMR* **56**, 359-363 (2013)

Lotter, H.\*, Helk, E.\*, Bernin, H.\*, Jacobs, T.\*, Prehn, C., Adamski, J., Gonzáles-Roldán, N.\*, Holst, O.\*, Tannich, E.\*: Testosteron increases susceptibility to amebic liver abscess in mice and mediates inhibition of IFNy secretion in natural killer T cells. *PLoS ONE* **8**:e55694 (2013)

Ludwig, K.U.\*, Samann, P.\*, Alexander, M.\*, Becker, J.\*, Bruder, J.\*, Moll, K.\*, Spieler, D., Czisch, M.\*, Warnke, A.\*, Docherty, S.J.\*, Davis, O.S.P.\*, Plomin, R.\*, Nöthen, M.M.\*, Landerl, K.\*, Müller-Myhsok, B.\*, Hoffmann, P.\*, Schumacher, J.\*, Schulte-Körne, G.\*, Czamara, D.\*: A common variant in *Myosin-18B* contributes to mathematical abilities in children with dyslexia and intraparietal sulcus variability in adults. *Transl. Psychiatry* **3**:e229 (2013)

Lutzweiler, C., Razansky, D.: Optoacoustic imaging and tomography: Reconstruction approaches and outstanding challenges in image performance and quantification. *Sensors* **13**, 7345-7384 (2013)

Luxenhofer, G., Helmbrecht, M.S., Langhoff, J., Giusti, S.A.\*, Refojo, D.\*, Huber, A.B.: MicroRNA-9 promotes the switch from early-born to late-born motor neuron populations by regulating Onecut transcription factor expression. *Dev. Biol.* **386**, 358-370 (2014) [published online 2013]

Ly, A., Scheerer, M.F., Zukunft, S., Muschet, C., Merl, J., Adamski, J., Hrabé de Angelis, M., Neschen, S., Hauck, S.M., Ueffing, M.: Retinal proteome alterations in a mouse model of type 2 diabetes. *Diabetologia* **57**, 192-203 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

## **Systemic Analysis of Multifactorial Diseases**

Machann, J., Horstmann, A.\*, Born, M.\*, Hesse, S.\*, Hirsch, F.W.\*: Diagnostic imaging in obesity. Best Pract. Res. Clin. Endoc. Metab. 27, 261-277 (2013)

Mainz, A., Religa, T.L.\*, Sprangers, R.\*, Linser, R.\*, Kay, L.E.\*, Reif, B.: NMR spectroscopy of soluble protein complexes at one mega-dalton and beyond. *Angew. Chem.-Int. Edit.* **52**, 8746-8751 (2013)

Malatesta, P.\*, Götz, M.: Radial glia - from boring cables to stem cell stars. *Development* **140**, 483-486 (2013)

Manzoni, C.\*, Mamais, A.\*, Dihanich, S.\*, McGoldrick, P.\*, Devine, M.J.\*, Zerle, J., Kara, E.\*, Taanman, J.W.\*, Healy, D.G.\*, Marti-Masso, J.F.\*, Schapira, A.H.\*, Plun-Favreau, H.\*, Tooze, S.\*, Hardy, J.\*, Bandopadhyay, R.\*, Lewis, P.A.\*: Pathogenic Parkinson's disease mutations across the functional domains of LRRK2 alter the autophagic/lysosomal response to starvation. *Biochem. Biophys. Res. Commun.* **441**, 862-866 (2013)

Marchais-Oberwinkler, S.\*, Xu, K.\*, Wetzel, M.\*, Perspicace, E.\*, Negri, M.\*, Odermatt, A.\*, Möller, G., Adamski, J., Hartmann, R.W.\*: Structural optimization of 2,5-tiophene amides as highly potent and selective  $17\beta$ -hydroxysteroid dehydrogenase type 2 inhibitors for the treatment of osteoporosis. *J. Med. Chem.* **56**, 167-181 (2013)

Martel, S.\*, Gillerat, F.\*, Carosati, E.\*, Maiarelli, D.\*, Tetko, I.V., Mannhold, R.\*, Carrupt, P.A.\*: Large, chemically diverse dataset of logP measurements for benchmarking studies. *Eur. J. Pharm. Sci.* **48**, 21-29 (2013)

Mayerle, J.\*, den Hoed, C.M.\*, Schurmann, C.\*, Stolk, L.\*, Homuth, G.\*, Peters, M.J.\*, Capelle, L.G.\*, Zimmermann, K.\*, Rivadeneira, F.\*, Gruska, S.\*, Völzke, H.\*, de Vries, A.C.\*, Völker, U.\*, Teumer, A.\*, van Meurs, J.B.J.\*, Steinmetz, I.\*, Nauck, M.\*, Ernst, F.\*, Weiss, F.U.\*, Hofman, A.\*, Zenker, M.\*, Kroemer, H.K.\*, Prokisch, H., Uitterlinden, A.G.\*, Lerch, M.M.\*, Kuipers, E.\*: Identification of genetic loci associated with *Helicobacter pylori* serologic status. *JAMA* **309**, 1912-1920 (2013)

Meder, B.\*, Rühle, F.\*, Weis, T.\*, Homuth, G.\*, Keller, A.\*, Franke, J.\*, Peil, B.\*, Lorenzo Bermejo, J.\*, Frese, K.\*, Huge, A.\*, Witten, A.\*, Vogel, B.\*, Haas, J.\*, Völker, U.\*, Ernst, F.\*, Teumer, A.\*, Ehlermann, P.\*, Zugck, C.\*, Friedrichs, F.\*, Kroemer, H.\*, Dörr, M.\*, Hoffmann, W.\*, Maisch, B.\*, Pankuweit, S.\*, Ruppert, V.\*, Scheffold, T.\*, Kühl, U.\*, Schultheiss, H.P.\*, Kreutz, R.\*, Ertl, G.\*, Angermann, C.\*, Charron, P.\*, Villard, E.\*, Gary, F.\*, Isnard, R.\*, Komajda, M.\*, Lutz, M.\*, Meitinger, T., Sinner, M.F.\*, Wichmann, H.-E., Krawczak, M.\*, Ivandic, B.\*, Weichenhan, D.\*, Gelbrich, G.\*, El-Mokhtari, N.E.\*, Schreiber, S.\*, Felix, S.B.\*, Hasenfuß, G.\*, Pfeufer, A., Hubner, N.\*, Kääb, S.\*, Arbustini, E.\*, Rottbauer, W.\*, Frey, N.\*, Stoll, M.\*, Katus, H.A.\*: A genome-wide association study identifies 6p21 as novel risk locus for dilated cardiomyopathy. *Eur. Heart J.*, DOI:10.1093/eurheartj/eht251 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

## **Systemic Analysis of Multifactorial Diseases**

Menni, C.\*, Fauman, E.\*, Erte, I.\*, Perry, J.R.\*, Kastenmüller, G., Shin, S.Y.\*, Petersen, A.-K., Hyde, C.\*, Psatha, M.\*, Ward, K.J.\*, Yuan, W.\*, Milburn, M.V.\*, Palmer, C.N.\*, Frayling, T.M.\*, Trimmer, J.\*, Bell, J.T.\*, Gieger, C., Mohney, R.P.\*, Brosnan, M.J.\*, Suhre, K., Soranzo, N.\*, Spector, T.D.\*: Biomarkers for type 2 diabetes and impaired fasting glucose using a non-targeted metabolomics approach. *Diabetes* **62**, 4270-4276 (2013)

Menni, C.\*, Kastenmüller, G., Petersen, A.-K., Bell, J.T.\*, Psatha, M.\*, Tsai, P.C.\*, Gieger, C., Schulz, H., Erte, I.\*, John, S.\*, Brosnan, M.J.\*, Wilson, S.G.\*, Tsaprouni, L.\*, Lim, E.M.\*, Stuckey, B.\*, Deloukas, P.\*, Mohney, R.P.\*, Suhre, K., Spector, T.D.\*, Valdes, A.M.\*: Metabolomic markers reveal novel pathways of ageing and early development in human populations. *Int. J. Epidemiol.* **42**, 1111-1119 (2013)

Merkl, C.\*, Saalfrank, A.\*, Riesen, N.\*, Kühn, R., Pertek, A., Eser, S.\*, Hardt, M.S.\*, Kind, A.\*, Saur, D.\*, Wurst, W., Iglesias, A.\*, Schnieke, A.\*: Efficient generation of rat induced pluripotent stem cells using a non-viral inducible vector. *PLoS ONE* **8**:e55170 (2013)

Merl, J., Deeg, C.A.\*, Swadzba, M.E.\*, Ueffing, M., Hauck, S.M.: Identification of autoantigens in body fluids by combining pull-downs and organic precipitations of intact immune complexes with quantitative label-free mass spectrometry. *J. Proteome Res.* **12**, 5656-5665 (2013)

Merz, K., Lie, D.C.: Evidence that doublecortin is dispensable for the development of adult born neurons in mice. *PLoS ONE* **8**:e62693 (2013)

Mewes, H.-W.: Perspectives of a systems biology of the brain: The big data conundrum understanding psychiatric diseases. *Pharmacopsychiatry* **46**, S2-S9 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-03-07

\* external authors are starred

## **Systemic Analysis of Multifactorial Diseases**

Michailidou, K.\*, Hall, P.\*, González-Neira, A.\*, Ghoussaini, M.\*, Dennis, J.\*, Milne, R.L.\*, Schmidt, M.K.\*, Chang-Claude, J.\*, Bojesen, S.E.\*, Bolla, M.K.\*, Wang, Q.\*, Dicks, E.\*, Lee, A.\*, Turnbull, C.\*, Rahman, N.\*, Fletcher, O.\*, Peto, J.\*, Gibson, L.\*, Dos Santos Silva, I.\*, Nevanlinna, H.\*, Muranen, T.A.\*, Aittomäki, K.\*, Blomqvist, C.\*, Czene, K.\*, Irwanto, A.\*, Liu, J.J.\*, Waisfisz, Q.\*, Meijers-Heijboer, H.\*, Adank, M.\*, van der Luijt, R.B.\*, Hein, R.\*, Dahmen, N.\*, Beckman, L.\*, Meindl, A.\*, Schmutzler, R.K.\*, Müller-Myhsok, B.\*, Lichtner, P., Hopper, J.L.\*, Southey, M.C.\*, Makalic, E.\*, Schmidt, D.F.\*, Uitterlinden, A.G.\*, Hofman, A.\*, Hunter, D.J.\*, Chanock, S.J.\*, Vincent, D.\*, Bacot, F.\*, Tessier, D.C.\*, Canisius, S.\*, Wessels, L.F.A.\*, Haiman, C.A.\*, Shah, M.\*, Luben, R.\*, Brown, J.\*, Luccarini, C.\*, Schoof, N.\*, Humphreys, K.\*, Li, J.M.\*, Nordestgaard, B.G.\*, Nielsen, S.F.\*, Flyger, H.\*, Couch, F.J.\*, Wang, X.S.\*, Vachon, C.\*, Stevens, K.N.\*, Lambrechts, D.\*, Moisse, M.\*, Paridaens, R.\*, Christiaens, M.R.\*, Rudolph, A.\*, Nickels, S.\*, Flesch-Janys, D.\*, Johnson, N.\*, Aitken, Z.\*, Aaltonen, K.\*, Heikkinen, T.\*, Broeks, A.\*, van't Veer, L.J.\*, van der Schoot, C.E.\*, Guénel, P.\*, Truong, T.\*, Laurent-Puig, P.\*, Menegaux, F.\*, Marme, F.\*, Schneeweiss, A.\*, Sohn, C.\*, Burwinke, B.\*, Zamora, M.P.\*, Perez, J.I.A.\*, Pita, G.\*, Alonso, M.R.\*, Cox, A.\*, Brock, I.W.\*, Cross, S.S.\*, Reed, M.W.R.\*, Sawyer, E.J.\*, Tomlinson, I.\*, Kerin, M.J.\*, Miller, N.\*, Henderson, B.E.\*, Schumacher, F.\*, Le Marchand, L.\*, Andrulis, I.L.\*, Knight, J.A.\*, Glendon, G.\*, Mulligan, A.M.\*, Lindblom, A.\*, Margolin, S.\*, Hooning, M.J.\*, Hollestelle, A.\*, van den Ouweland, A.M.W.\*, Jäger, A.\*, Bui, Q.M.\*, Stone, J.\*, Dite, G.S.\*, Apicella, C.\*, Tsimiklis, H.\*, Giles, G.G.\*, Severi, G.\*, Baglietto, L.\*, Fasching, P.A.\*, Haeberle, L.\*, Ekici, A.B.\*, Beckmann, M.W.\*, Brenner, H.\*, Müller, H.\*, Arndt, V.\*, Stegmaier, C.\*, Swerdlown, A.\*, Ashworth, A.\*, Orr, N.\*, Jones, M.\*, Figueroa, J.\*, Lissowska, J.\*, Brinton, L.\*, Goldberg, M.S.\*, Labreche, F.\*, Dumont, M.\*, Winqvist, R.\*, Pylkäs, K.\*, Jukkola-Vuorinen, A.\*, Grip, M.\*, Brauch, H.\*, Hamann, U.\*, Brüning, T.\*, Radice, P.\*, Peterlongo, P.\*, Manouldan, S.\*, Bonanni, B.\*, Devilee, P.\*, Tollenaar, R.A.E.M.\*, Seynaeve, C.\*, van Asperen, C.J.\*, Jakubowska, A.\*, Lubinski, J.\*, Jaworska, K.\*, Durda, K.\*, Mannermaa, A.\*, Kataja, V.\*, Kosma, V.M.\*, Hartikainen, J.M.\*, Bogdanova, N.V.\*, Antonenkova, N.N.\*, Dörk, T.\*, Kristensen, V.N.\*, Anton-Culver, H.\*, Slager, S.\*, Toland, A.E.\*, Edge, S.\*, Fostira, F.\*, Kang, D.\*, Yoo, K.Y.\*, Noh, D.Y.\*, Matsuo, K.\*, Ito, H.\*, Iwata, H.\*, Sueta, A.\*, Wu, A.H.\*, Tseng, C.C.\*, van Den Berg, D.\*, Stram, D.O.\*, Shu, X.O.\*, Lu, W.\*, Gao, Y.T.\*, Cai, H.\*, Teo, S.H.\*, Yip, C.H.\*, Phuah, S.Y.\*, Cornes, B.K.\*, Hartman, M.\*, Miao, H.\*, Lim, W.Y.\*, Sng, J.H.\*, Muir, K.\*, Lophatananon, A.\*, Stewart-Brown, S.\*, Siriwanarangsan, P.\*, Shen, C.Y.\*, Hsiung, C.N.\*, Wu, P.E.\*, Ding, S.L.\*, Sangrajrang, S.\*, Gaborieau, V.\*, Brennan, P.\*, Mckay, J.\*, Blot, W.J.\*, Signorello, L.B.\*, Cai, Q.Y.\*, Zheng, W.\*, Deming-Halverson, S.\*, Shrubsole, M.\*, Long, J.R.\*, Simard, J.\*, Garcia-Closas, M.\*, Pharoah, P.D.P.\*, Chenevix-Trench, G.\*, Dunning, A.M.\*, Benítez, J.\*, Easton, D.F.\*: Large-scale genotyping identifies 41 new loci associated with breast cancer risk. Nat. Genet. 45, 353-361 (2013)

Minelli, C.\*, de Grandi, A.\*, Weichenberger, C.X.\*, Gögele, M.\*, Modenese, M.\*, Attia, J.\*, Barrett, J.H.\*, Boehnke, M.\*, Borsani, G.\*, Casari, G.\*, Fox, C.S.\*, Freina, T.\*, Hicks, A.A.\*, Marroni, F.\*, Parmigiani, G.\*, Pastore, A.\*, Pattaro, C.\*, Pfeufer, A., Ruggeri, F.\*, Schwienbacher, C.\*, Taliun, D.\*, Pramstaller, P.P.\*, Domingues, F.S.\*, Thompson, J.R.\*: Importance of different types of prior knowledge in selecting genome-wide findings for follow-up. *Genet. Epidemiol.* **37**, 205-213 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

## **Systemic Analysis of Multifactorial Diseases**

Mishra, A., Mishra, R.\*, Gottschalk, S., Pal, R.\*, Sim, N.\*, Engelmann, J.\*, Goldberg, M.\*, Parker, D.\*: Microscopic visualization of metabotropic glutamate receptors on the surface of living cells using bifunctional magnetic resonance imaging probes. *ACS Chem. Neurosci.* **5**, 128–137 (2014) [published online 2013]

Modzelewska, K.\*, Lauritzen, A.\*, Hasenöder, S., Brown, L.\*, Georgiou, J.\*, Moghal, N.\*: Neurons refine the *Caenorhabditis elegans* body plan by directing axial patterning by Wnts. *PLoS Biol.* **11**:e1001465 (2013)

Mohajerani, P., Ntziachristos, V.: Compression of Born ratio for fluorescence molecular tomography/X-ray computed tomography hybrid imaging: Methodology and *in vivo* validation. *Opt. Lett.* **38**, 2324-2326 (2013)

Mohajerani, P., Meier, R.\*, Noel, P.B.\*, Rummeny, E.J.\*, Ntziachristos, V.: Spatiotemporal analysis for indocyanine green-aided imaging of rheumatoid arthritis in hand joints. *J. Biomed. Opt.* **18**:97004 (2013)

Moignard, V.\*, Macaulay, I.C.\*, Swiers, G.\*, Buettner, F., Schütte, J.\*, Calero-Nieto, F.J.\*, Kinston, S.\*, Joshi, A.\*, Hannah, R.\*, Theis, F.J., Jacobsen, S.E.\*, de Bruijn, M.F.\*, Göttgens, B.\*: Characterization of transcriptional networks in blood stem and progenitor cells using high-throughput single-cell gene expression analysis. *Nat. Cell Biol.* **15**, 363-372 (2013)

Møller, T.C.\*, Wirth, V.F.\*, Roberts, N.I.\*, Bender, J.\*, Bach, A.\*, Jacky, B.P.S.\*, Strømgaard, K.\*, Deussing, J.M., Schwartz, T.W.\*, Martinez, K.L.\*: PDZ domain-mediated interactions of G protein-coupled receptors with postsynaptic density protein 95: Quantitative characterization of interactions. *PLoS ONE* **8**:e63352 (2013)

Mömke, S.\*, Sickinger, M.\*, Lichtner, P., Doll, K.\*, Rehage, J.\*, Distl, O.\*: Genome-wide association analysis identifies loci for left-sided displacement of the abomasum in German Holstein cattle. *J. Dairy Sci.* **96**, 3959-3964 (2013)

Monti, P.\*, Brigatti, C.\*, Krasmann, M., Ziegler, A.-G., Bonifacio, E.\*: Concentration and activity of the soluble form of the interleukin-7 receptor  $\alpha$  in type I diabetes identifies an interplay between hyperglycemia and immune function. *Diabetes* **62**, 2500-2508 (2013)

Montrone, C., Kokkaliaris, K.D., Loeffler, D., Lechner, M., Kastenmüller, G., Schroeder, T., Ruepp, A.: HSC-Explorer: A curated database for hematopoietic stem cells. *PLoS ONE* **8**:e70348 (2013)

Moran, A.\*, Bundy, B.\*, Becker, D.J.\*, Dimeglio, L.A.\*, Gitelman, S.E.\*, Goland, R.\*, Greenbaum, C.J.\*, Herold, K.C.\*, Marks, J.B.\*, Raskin, P.\*, Sanda, S.\*, Schatz, D.\*, Wherrett, D.K.\*, Wilson, D.M.\*, Krischer, J.P.\*, Skyler, J.S.\*, Pickersgill, L.\*, de Koning, E.\*, Ziegler, A.-G., Böehm, B.\*, Badenhoop, K.\*, Schloot, N.\*, Bak, J.F.\*, Pozzilli, P.\*, Mauricio, D.\*, Donath, M.Y.\*, Castaño, L.\*, Wagner, A.\*, Lervang, H.H.\*, Perrild, H.\*, Mandrup-Poulsen, T.\*: Interleukin-1 antagonism in type 1 diabetes of recent onset: Two multicentre, randomised, double-blind, placebo-controlled trials. *Lancet* **381**, 1905-1915 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

## **Systemic Analysis of Multifactorial Diseases**

Motori, E.\*, Puyal, J.\*, Toni, N.\*, Ghanem, A.\*, Angeloni, C.\*, Malaguti, M.\*, Cantelli-Forti, G.\*, Berninger, B.\*, Conzelmann, K.K.\*, Götz, M., Winklhofer, K.F.\*, Hrelia, S.\*, Bergami, M.\*: Inflammation-induced alteration of astrocyte mitochondrial dynamics requires autophagy for mitochondrial network maintenance. *Cell Metab.* **18**, 844-859 (2013)

Müller, A.\*, Kleinau, G.\*, Piechowski, C.L.\*, Müller, T.D., Finan, B., Pratzka, J.\*, Grüters, A.\*, Krude, H.\*, Tschöp, M.H., Biebermann, H.\*: G-Protein coupled Receptor 83 (GPR83) signaling determined by constitutive and zinc(II)-induced activity. *PLoS ONE* **8**:e53347 (2013)

Müller, J., Hense, B.A., Fuchs, T.M.\*, Utz, M.\*, Pötzsche, C.\*: Bet-hedging in stochastically switching environments. *J. Theor. Biol.* **336**, 144-157 (2013)

Müller, R.\*, Gräwert, M.A.\*, Kern, T., Madl, T., Peschek, J.\*, Sattler, M., Groll, M.\*, Buchner, J.\*: High-resolution structures of the IgM Fc domains reveal principles of its hexamer formation. *Proc. Natl. Acad. Sci. U.S.A.* **110**, 10183-10188 (2013)

Müller, T.D., Tschöp, M.H., Hofmann, S.M.: Emerging function of fat mass and obesity-associated protein (FTO). *PLoS Genet.* **9**:e1003223 (2013)

Müller, T.D., Lee, S.J.\*, Jastroch, M., Kabra, D., Stemmer, K., Aichler, M., Abplanalp, B.\*, Ananthakrishnan, G.\*, Bhardwaj, N.\*, Collins, S.\*, Divanovic, S.\*, Endele, M., Finan, B., Gao, Y.\*, Habegger, K.M.\*, Hembree, J.\*, Heppner, K.M.\*, Hofmann, S., Holland, J.\*, Küchler, D., Kutschke, M., Krishna, R.\*, Lehti, M.\*, Oelkrug, R.\*, Ottaway, N.\*, Perez-Tilve, D.\*, Raver, C.\*, Walch, A.K., Schriever, S.C., Speakman, J.\*, Tseng, Y.H.\*, Diaz-Meco, M.\*, Pfluger, P.T., Moscat, J.\*, Tschöp, M.H.: P62 links β-adrenergic input to mitochondrial function and thermogenesis. *J. Clin. Invest.* 123, 469-478 (2013)

Müller, T.D., Müller, A.\*, Yi, C.-X., Habegger, K.M.\*, Meyer, C.W., Gaylinn, B.D.\*, Finan, B., Heppner, K.\*, Trivedi, C.\*, Bielohuby, M.\*, Abplanalp, W.\*, Meyer, F.\*, Piechowski, C.L.\*, Pratzka, J.\*, Stemmer, K., Holland, J.\*, Hembree, J.\*, Bhardwaj, N.\*, Raver, C.\*, Ottaway, N.\*, Krishna, R.\*, Sah, R.\*, Sallee, F.R.\*, Woods, S.C.\*, Perez-Tilve, D.\*, Bidlingmaier, M.\*, Thorner, M.O.\*, Krude, H.\*, Smiley, D.\*, DiMarchi, R.\*, Hofmann, S., Pfluger, P.T., Kleinau, G.\*, Biebermann, H.\*, Tschöp, M.H.: The orphan receptor Gpr83 regulates systemic energy metabolism via ghrelin-dependent and ghrelin-independent mechanisms. *Nat. Commun.* **4**:1968 (2013)

Nasir, M.\*, Ahmad, N.\*, Sieber, C.M., Latif, A.\*, Malik, S.A.\*, Hameed, A.\*: *In silico* characterization of a novel pathogenic deletion mutation identified in *XPA* gene in a Pakistani family with severe xeroderma pigmentosum. *J. Biomed. Sci.* **20**:70 (2013)

Neuhaus, A.\*, Kooshapur, H., Wolf, J.\*, Meyer, N.H., Madl, T., Saidowsky, J.\*, Hambruch, E.\*, Lazam, A.\*, Jung, M.\*, Sattler, M., Schliebs, W.\*, Erdmann, R.\*: A novel Pex14 protein-interacting site of human Pex5 is critical for matrix protein import into peroxisomes. *J. Biol. Chem.* **289**, 437-448 (2014) [published online 2013]

German Research Center for Environmental Health

## **Publication List 2013**

2014-03-07

\* external authors are starred

## **Systemic Analysis of Multifactorial Diseases**

Neukamm, S.S., Ott, J.\*, Dammeier, S.\*, Lehmann, R., Häring, H.-U., Schleicher, E.D., Weigert, C.: Phosphorylation of Serine 1137/1138 of mouse Insulin Receptor Substrate (IRS) 2 regulates cAMP-dependent binding to 14-3-3 proteins and IRS2 protein degradation. *J. Biol. Chem.* **288**, 16403-16415 (2013)

Neumann, S.\*, Fuchs, A.\*, Hummel, B.\*, Frishman, D.: Classification of α-helical membrane proteins using predicted helix architectures. *PLoS ONE* **8**:e77491 (2013)

Niedner, A., Müller, M., Moorthy, B.T.\*, Jansen, R.-P.\*, Niessing, D.: Role of Loc1p in assembly and reorganization of nuclear *ASH1* messenger ribonucleoprotein particles in yeast. *Proc. Natl. Acad. Sci. U.S.A.* **110**, E5049–E5058 (2013)

Niehaus, E.-M.\*, Kleigrewe, K.\*, Wiemann, P.\*, Studt, L.\*, Sieber, C.M.K., Connolly, L.R.\*, Freitag, M.\*, Güldener, U., Tudzynski, B.\*, Humpf, H.-U.\*: Genetic manipulation of the *Fusarium fujikuroi* fusarin gene cluster yields insight into the complex regulation and fusarin biosynthetic pathway. *Chem. Biol.* **20**, 1055-1066 (2013)

Ninkovic, J., Götz, M.: Fate specification in the adult brain lessons for eliciting neurogenesis from glial cells. *Bioessays* **35**, 242-252 (2013)

Ninkovic, J., Steiner-Mezzadri, A., Jawerka, M.\*, Akinci, U.\*, Masserdotti, G., Petricca, S., Fischer, J., von Holst, A.\*, Beckers, J., Lie, D.C., Petrik, D.\*, Miller, E.\*, Tang, J.\*, Wu, J.\*, Lefebvre, V.\*, Demmers, J.\*, Eisch, A.\*, Metzger, D.\*, Crabtree, G.\*, Irmler, M., Poot, R.\*, Götz, M.: The BAF complex interacts with Pax6 in adult neural progenitors to establish a neurogenic cross-regulatory transcriptional network. *Cell Stem Cell* 13, 403-418 (2013)

Nordström. V.\*, Willershäuser, M., Herzer, S.\*, Rozman, J., von Bohlen und Halbach, O.\*, Meldner, S.\*, Rothermel, U.\*, Kaden, S.\*, Roth, F. C.\*, Waldeck, C.\*, Gertz, N.\*, Hrabé de Angelis, M., Draguhn, A.\*, Klingenspor, M.\*, Gröne, H. J.\*, Jennemann, R.\*: Neuronal expression of glucosylceramide synthase in central nervous system regulates body weight and energy homeostasis. *PLoS Biol.* **11**:e1001506 (2013)

O'Malley, J.\*, Skylaki, S., Iwabuchi, K.A.\*, Chantzoura, E.\*, Ruetz, T.\*, Johnsson, A.\*, Tomlinson, S.R.\*, Linnarsson, S.\*, Kaji, K.\*: High-resolution analysis with novel cell-surface markers identifies routes to iPS cells. *Nature* **499**, 88-91 (2013)

Oates, E.C.\*, Rossor, A.M.\*, Hafezparast, M.\*, Gonzalez, M.\*, Speziani, F.\*, MacArthur, D.G.\*, Lek, M.\*, Cottenie, E.\*, Scoto, M.\*, Foley, A.R.\*, Hurles, M.\*, Houlden, H.\*, Greensmith, L.\*, Auer-Grumbach, M.\*, Pieber, T.R.\*, Strom, T.-M., Schule, R.\*, Herrmann, D.N.\*, Sowden, J.E.\*, Acsadi, G.\*, Menezes, M.P.\*, Clarke, N.F.\*, Zuchner, S.\*, Muntoni, F.\*, North, K.N.\*, Reilly, M.M.\*: Mutations in *BICD2* cause dominant congenital spinal muscular atrophy and hereditary spastic paraplegia. *Am. J. Hum. Genet.* **92**, 965-973 (2013)

Oelkrug, R.\*, Goetze, N.\*, Exner, C.\*, Lee, Y.\*, Ganjam, G.K.\*, Kutschke, M., Müller, S., Stöhr, S.\*, Tschöp, M.H., Crichton, P.G.\*, Heldmaier, G.\*, Jastroch, M., Meyer, C.W.: Brown fat in a protoendothermic mammal fuels eutherian evolution. *Nat. Commun.* **4**:2140 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

## Systemic Analysis of Multifactorial Diseases

Omar, M., Gateau, J., Ntziachristos, V.: Raster-scan optoacoustic mesoscopy in the 25-125 MHz range. *Opt. Lett.* **38**, 2472-2474 (2013)

Onyango, N.O.\*, Müller, J.: Determination of optimal vaccination strategies using an orbital stability threshold from periodically driven systems. *J. Math. Biol.* **68**, 763-784 (2014) [published online 2013]

Oprisiu, I., Novotarskyi, S.\*, Tetko, I.V.: Modeling of non-additive mixture properties using the Online CHEmical database and Modeling environment (OCHEM). *J. Cheminformatics* **5**:4 (2013)

Ortega, F.\*, Gascón, S., Masserdotti, G., Deshpande, A.\*, Simon, C.\*, Fischer, J., Dimou, L., Lie, D.C.C.\*, Schroeder, T., Berninger, B.: Oligodendrogliogenic and neurogenic adult subependymal zone neural stem cells constitute distinct lineages and exhibit differential responsiveness to Wnt signalling. *Nat. Cell Biol.* **15**, 602-613 (2013)

Ortiz, O., Wurst, W., Kühn, R.: Reversible and tissue-specific activation of MAP kinase signaling by tamoxifen in braf<sup>V637</sup> ER<sup>T2</sup> mice. *Genesis* **51**, 448-455 (2013)

Panda, S.K., Wefers, B., Ortiz, O., Floss, T., Schmid, B.\*, Haass, C.\*, Wurst, W., Kühn, R.: Highly efficient targeted mutagenesis in mice using TALENs. *Genetics* **195**, 703-713 (2013)

Parzefall, T.\*, Shivatzki, S.\*, Lenz, D.R.\*, Rathkolb, B., Ushakov, K.\*, Karfunkel, D.\*, Shapira, Y.\*, Wolf, M.\*, Mohr, M.\*, Wolf, E.\*, Sabrautzki, S., Hrabé de Angelis, M., Frydman, M.\*, Brownstein, Z.\*, Avraham, K.B.\*: Cytoplasmic mislocalization of POU3F4 due to novel mutations leads to deafness in humans and mice. *Hum. Mutat.* **34**, 1102-1110 (2013)

Patterson, A.D.\*, Carlson, B.A.\*, Li, F.\*, Bonzo, J.A.\*, Yoo, M.H.\*, Krausz, K.W.\*, Conrad, M., Chen, C.\*, Gonzalez, F.J.\*, Hatfield, D.L.\*: Disruption of thioredoxin reductase 1 protects mice from acute acetaminophen-induced hepatotoxicity through enhanced NRF2 activity. *Chem. Res. Toxicol.* **26**, 1088-1096 (2013)

Petersen, A.-K., Zeilinger, S., Kastenmüller, G., Römisch-Margl, W., Brugger, M., Peters, A., Meisinger, C., Strauch, K., Hengstenberg, C.\*, Pagel, P.\*, Huber, F.\*, Mohney, R.P.\*, Grallert, H.H., Illig, T.\*, Adamski, J., Waldenberger, M., Gieger, C., Suhre, K.: Epigenetics meets metabolomics: An epigenome-wide association study with blood serum metabolic traits. *Hum. Mol. Genet.* **23**, 534-545 (2014) [published online 2013]

Pfaff, J., Meister, G.\*: Argonaute and GW182 proteins: An effective alliance in gene silencing. *Biochem. Soc. Trans.* **41**, 855-860 (2013)

Pfaff, J., Hennig, J., Herzog, F.\*, Aebersold, R.\*, Sattler, M., Niessing, D., Meister, G.\*: Structural features of Argonaute–GW182 protein interactions. *Proc. Natl. Acad. Sci. U.S.A.* **110**, 3770-3779 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-03-07

\* external authors are starred

## **Systemic Analysis of Multifactorial Diseases**

Pilz, G.-A., Shitamukai, A.\*, Reillo, I.\*, Pacary, E.\*, Schwausch, J., Stahl, R.\*, Ninkovic, J., Snippert, H.J.\*, Clevers, H.\*, Godinho, L., Guillemot, F.\*, Borrell, V.\*, Matsuzaki, F.\*, Götz, M.: Amplification of progenitors in the mammalian telencephalon includes a new radial glial cell type. *Nat. Commun.* **4**:2125 (2013)

Pinto-Teixeira, F.\*, Muzzopappa, M.\*, Swoger, J.\*, Mineo, A.\*, Sharpe, J.\*, López-Schier, H.: Intravital imaging of hair-cell development and regeneration in the zebrafish. *Front. Neuroanat.* **7**:33 (2013)

Pradier, B.\*, Jeub, M.\*, Markert, A.\*, Mauer, D.\*, Tolksdorf, K.\*, van de Putte, T.\*, Seuntjens, E.\*, Gailus-Durner, V., Fuchs, H., Hrabé de Angelis, M., Huylebroeck, D.\*, Beck, H.\*, Zimmer, A.\*, Rácz, I.\*: Smad-interacting protein 1 affects acute and tonic, but not chronic pain. *Eur. J. Pain* 18, 249–257 (2014) [published online 2013]

Priglinger, C.S.\*, Szober, C.M.\*, Priglinger, S.G.\*, Merl, J., Euler, K.N.\*, Kernt, M.\*, Gondi, G., Behler, J., Geerlof, A., Kampik, A.\*, Ueffing, M., Hauck, S.M.: Galectin-3 induces clustering of CD147 and integrin-β1 transmembrane glycoprotein receptors on the RPE cell surface. *PLoS ONE* 8:e70011 (2013)

Pujol-Martí, J., López-Schier, H.: Developmental and architectural principles of the lateral-line neural map. *Front. Neural Circuits* **7**:47 (2013)

Puk, O., Hrabé de Angelis, M., Graw, J.: Lens density tracking in mice by Scheimpflug imaging. *Mamm. Genome* **24**, 295-302 (2013)

Puk, O., Hrabé de Angelis, M., Graw, J.: Longitudinal fundus and retinal studies with SD-OCT: A comparison of five mouse inbred strains. *Mamm. Genome* **24**, 198-205 (2013)

Puk, O., Yan, X., Sabrautzki, S., Fuchs, H., Gailus-Durner, V., Hrabé de Angelis, M., Graw, J.: Novel small-eye allele in paired box gene 6 (Pax6) is caused by a point mutation in intron 7 and creates a new exon. *Mol. Vis.* **19**, 877-884 (2013)

Queirós, D., Dean-Ben, X.L., Bühler, A., Razansky, D., Rosenthal, A., Ntziachristos, V.: Modeling the shape of cylindrically focused transducers in three-dimensional optoacoustic tomography. *J. Biomed. Opt.* **18**:76014 (2013)

Raab, J., Haupt, F., Kordonouri, O.\*, Scholz, M.\*, Wosch, A., Ried, C.\*, Aschemeier, B.\*, Danne, T.\*, Ziegler, A.-G., Winkler, C.: Continuous rise of insulin resistance before and after the onset of puberty in children at increased risk for type 1 diabetes - a cross-sectional analysis. *Diabetes Metab. Res. Rev.* **29**, 631-635 (2013)

Raffler, J., Römisch-Margl, W., Petersen, A.-K., Pagel, P.\*, Blöchl, F.\*, Hengstenberg, C.\*, Illig, T., Meisinger, C., Stark, K.\*, Wichmann, H.-E., Adamski, J., Gieger, C., Kastenmüller, G., Suhre, K.: Identification and MS-assisted interpretation of genetically influenced NMR signals in human plasma. *Genome Med.* **5**:13 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

## **Systemic Analysis of Multifactorial Diseases**

Raue, A., Schilling, M.\*, Bachmann, J.\*, Matteson, A.\*, Schelker, M.\*, Kaschek, D.\*, Hug, S., Kreutz, C.\*, Harms, B.D.\*, Theis, F.J., Klingmüller, U.\*, Timmer, J.\*: Lessons learned from quantitative dynamical modeling in systems biology. *PLoS ONE* **8**:e74335 (2013)

Regier, N.\*, Baerlocher, L.\*, Münsterkötter, M., Farinelli, L.\*, Cosio, C.\*: Analysis of the *Elodea nuttallii* transcriptome in response to mercury and cadmiumpollution: Development of sensitive tools for rapid ecotoxicological testing. *Environ. Sci. Technol.* **47**, 8825-8834 (2013)

Reinhard, L.\*, Mayerhofer, H.\*, Geerlof, A., Müller-Dieckmann, J.\*, Weiss, M.S.\*: Optimization of protein buffer cocktails using Thermofluor. *Acta Crystallogr. F-Struct. Biol. Cryst. Commun.* **69**, 209-214 (2013)

Rengstl, B.\*, Newrzela, S.\*, Heinrich, T.\*, Weiser, C.\*, Thalheimer, F.B.\*, Schmid, F.\*, Warner, K.\*, Hartmann, S.\*, Schroeder, T., Küppers, R.\*, Rieger, M.A.\*, Hansmann, M.L.\*: Incomplete cytokinesis and re-fusion of small mononucleated Hodgkin cells lead to giant multinucleated Reed-Sternberg cells. *Proc. Natl. Acad. Sci. U.S.A.* **110**, 20729–20734 (2013)

Renner, S.\*, Braun-Reichhart, C.\*, Blutke, A.\*, Herbach, N.\*, Emrich, D.\*, Streckel, E.\*, Wünsch, A.\*, Kessler, B.\*, Kurome, M.\*, Bahr, A.\*, Klymiuk, N.\*, Krebs, S.\*, Puk, O., Nagashima, H.\*, Graw, J., Blum, H.\*, Wanke, R.\*, Wolf, E.\*: Permanent neonatal diabetes in *INS*<sup>C94Y</sup> transgenic pigs. *Diabetes* **62**, 1505-1511 (2013)

Retter, F.\*, Plant, C., Burgeth, B.\*, Botella, G.\*, Schlossbauer, T.\*, Meyer-Bäse, A.\*: Computer-aided diagnosis for diagnostically challenging breast lesions in DCE-MRI based on image registration and integration of morphologic and dynamic characteristics. *EURASIP J. Adv. Signal Process.* **2013**:157 (2013)

Rinck, A., Preusse, M., Laggerbauer, B.\*, Lickert, H., Engelhardt, S.\*, Theis, F.J.: The human transcriptome is enriched for miRNA-binding sites located in cooperativity-permitting distance. *RNA Biol.* **10**, 1125-1135 (2013)

Robins, S.C.\*, Stewart, I.\*, McNay, D.E.\*, Taylor, V.\*, Giachino, C.\*, Götz, M., Ninkovic, J., Briancon, N.\*, Maratos-Flier, E.\*, Flier, J.S.\*, Kokoeva, M.V.\*, Placzek, M.\*: α-Tanycytes of the adult hypothalamic third ventricle include distinct populations of FGF-responsive neural progenitors. *Nat. Commun.* **4**:2049 (2013)

Rödel, F.\*, Frey, B.\*, Multhoff, G.\*, Gaipl, U.: Contribution of the immune system to bystander and non-targeted effects of ionizing radiation. *Cancer Lett.*, DOI:10.1016/j.canlet.2013.09.015 (2013)

Röhrig, N.\*, Strobl, R.\*, Müller, M.\*, Perz, S., Kääb, S.\*, Martens, E.\*, Peters, A., Linkohr, B., Grill, E.\*: Directed acyclic graphs helped to identify confounding in the association of disability and electrocardiographic findings: Results from the KORA-Age study. *J. Clin. Epidemiol.* **67**, 199–206 (2014) [published online 2013]

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

## **Systemic Analysis of Multifactorial Diseases**

Roosing, S.\*, Rohrschneider, K.\*, Beryozkin, A.\*, Sharon, D.\*, Weisschuh, N.\*, Staller, J.\*, Kohl, S.\*, Zelinger, L.\*, Peters, T.A.\*, Neveling, K.\*, Strom, T.-M., European Retinal Disease Consortium, van den Born, L.I.\*, Hoyng, C.B.\*, Klaver, C.C.\*, Roepman, R.\*, Wissinger, B.\*, Banin, E.\*, Cremers, F.P.\*, den Hollander, A.I.\*: Mutations in *RAB28*, encoding a farnesylated small GTPase, are associated with autosomal-recessive cone-rod dystrophy. *Am. J. Hum. Genet.* **93**, 110-117 (2013)

Sabrautzki, S., Janas, E., Lorenz-Depiereux, B., Calzada-Wack, J., Aguilar-Pimentel, J.A., Rathkolb, B., Adler, T., Cohrs, C.M., Hans, W., Diener, S., Fuchs, H., Gailus-Durner, V., Busch, D.H.\*, Höfler, H.\*, Ollert, M.\*, Strom, T.-M., Wolf, E.\*, Neff, F., Hrabé de Angelis, M.: An ENU mutagenesis-derived mouse model with a dominant *Jak1* mutation resembling phenotypes of systemic autoimmune disease. *Am. J. Pathol.* **183**, 352-368 (2013)

Salem, N.J.M.\*, Hempel, M.\*, Heiliger, K.J.\*, Hosie, S.\*, Meitinger, T., Oexle, K.\*: Anal atresia, coloboma, microphthalmia, and nasal skin tag in a female patient with 3.5 Mb deletion of 3q26 encompassing SOX2. *Am. J. Med. Genet. A* **161**, 1421-1424 (2013)

Sass, S., Büttner, F., Müller, N.S., Theis, F.J.: A modular framework for gene set analysis integrating multilevel omics data. *Nucleic Acids Res.* **41**, 9622-9633 (2013)

Schäfer, N.\*, Yu, Z., Wagener, A.\*, Millrose, M.K.\*, Reissmann, M.\*, Bortfeldt, R.\*, Dieterich, C.\*, Adamski, J., Wang-Sattler, R., Illig, T., Brockmann, G.A.\*: Changes in metabolite profiles caused by genetically determined obesity in mice. *Metabolomics*, DOI:10.1007/s11306-013-0590-1 (2013)

Schardl, C.L.\*, Young, C.A.\*, Hesse, U.\*, Amyotte, S.G.\*, Andreeva, K.\*, Calie, P.J.\*, Fleetwood, D.J.\*, Haws, D.C.\*, Moore, N.\*, Oeser, B.\*, Panaccione, D.G.\*, Schweri, K.K.\*, Voisey, C.R.\*, Farman, M.L.\*, Jaromczyk, J.W.\*, Roe, B.A.\*, O'Sullivan, D.M.\*, Scott, B.\*, Tudzynski, P.\*, An, Z.\*, Arnaoudova, E.G.\*, Bullock, C.T.\*, Charlton, N.D.\*, Chen, L.\*, Cox, M.\*, Dinkins, R.D.\*, Florea, S.\*, Glenn, A.E.\*, Gordon, A.\*, Güldener, U., Harris, D.R.\*, Hollin, W.\*, Jaromczyk, J.\*, Johnson, R.D.\*, Khan, A.K.\*, Leistner, E.\*, Leuchtmann, A.\*, Li, C.\*, Liu, J.\*, Liu, M.\*, Mace, W.\*, Machado, C.\*, Nagabhyru, P.\*, Pan, J.\*, Schmid, J.\*, Sugawara, K.\*, Steiner, U.\*, Takach, J.E.\*, Tanaka, E.\*, Webb, J.S.\*, Wilson, E.V.\*, Wiseman, J.L.\*, Yoshida, R.\*, Zeng, Z.\*: Plant-symbiotic fungi as chemical engineers: Multi-genome analysis of the clavicipitaceae reveals dynamics of alkaloid loci. *PLoS Genet.* **9**:e1003323 (2013)

Scherb, H., Kusmierz, R., Voigt, K.: Increased sex ratio in Russia and Cuba after Chernobyl: A radiological hypothesis. *Environ. Health* **12**:63 (2013)

Scherer, T.\*, Lehnert, H.\*, Hallschmid, M.: Brain insulin and leptin signaling in metabolic control: From animal research to clinical application. *Endocrinol. Metab. Clin. North Am.* **42**, 109-125 (2013)

Schießl, I.M.\*, Bardehle, S., Castrop, H.\*: Superficial nephrons in BALB/c and C57BL/6 mice facilitate *in vivo* multiphoton microscopy of the kidney. *PLoS ONE* **8**:e52499 (2013)

Schmidl, D., Czado, C.\*, Hug, S., Theis, F.J.: A vine-copula based adaptive MCMC sampler for efficient inference of dynamical systems. *Bayesian Anal.* **8**, 1-22 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-03-07

\* external authors are starred

## **Systemic Analysis of Multifactorial Diseases**

Schmidl, D., Czado, C.\*, Hug, S., Theis, F.J.: Rejoinder on "A vine-copula based adaptive MCMC sampler for efficient inference of dynamical systems". *Bayesian Anal.* **8**, 33-42 (2013)

Schneider, K.\*, Fuchs, C., Dobay, A.\*, Rottach, A.\*, Qin, W.H.\*, Wolf, P.\*, Alvarez-Castro, J.M.\*, Nalaskowski, M.M.\*, Kremmer, E., Schmid, V.\*, Leonhardt, H.\*, Schermelleh, L.\*: Dissection of cell cycle-dependent dynamics of Dnmt1 by FRAP and diffusion-coupled modeling. *Nucleic Acids Res.* **41**, 4860-4876 (2013)

Schulte, E.C., Claussen, M.C.\*, Jochim, A.\*, Haack, T.B., Hartig, M., Hempel, M., Prokisch, H., Haun-Junger, U.\*, Winkelmann, J., Hemmer, B.\*, Forschler, A.\*, Ilg, R.\*: Mitochondrial membrane protein associated neurodegeneration: A novel variant of neurodegeneration with brain iron accumulation. *Mov. Disord.* **28**, 224-227 (2013)

Schulte, E.C., Ellwanger, D.C.\*, Dihanich, S.\*, Manzoni, C.\*, Stangl, K.\*, Schormair, B., Graf, E., Eck, S., Mollenhauer, B.\*, Haubenberger, D.\*, Pirker, W.\*, Zimprich, A.\*, Brücke, T.\*, Lichtner, P., Peters, A., Gieger, C., Trenkwalder, C.\*, Mewes, H.-W.\*, Meitinger, T., Lewis, P.A.\*, Klünemann, H.H.\*, Winkelmann, J.: Rare variants in *LRRK1* and Parkinson's disease. *Neurogenetics*, DOI:10.1007/s10048-013-0383-8 (2013)

Schulte, E.C., Stahl, I., Czamara, D.\*, Ellwanger, D.C.\*, Eck, S., Graf, E., Mollenhauer, B.\*, Zimprich, A.E.L.\*, Lichtner, P., Haubenberger, D.\*, Pirker, W.\*, Brücke, T.\*, Bereznai, B.\*, Molnar, M.J.\*, Peters, A., Gieger, C., Müller-Myhsok, B.\*, Trenkwalder, C.\*, Winkelmann, J.: Rare variants in *PLXNA4* and Parkinson's disease. *PLoS ONE* 8:e79145 (2013)

Schulz, N.\*, Kluth, O.\*, Jastroch, M., Schürmann, A.\*: Minor role of mitochondrial respiration for fatty-acid induced insulin secretion. *Int. J. Mol. Sci.* **14**, 18989-18998 (2013)

Schütz, U.H.W.\*, Billich, C.\*, König, K.\*, Würslin, C.\*, Wiedelbach, H.\*, Brambs, H.J.\*, Machann, J.: Characteristics, changes and influence of body composition during a 4486 km transcontinental ultramarathon: Results from the Transeurope Footrace mobile whole body MRI-project. *BMC Med.* 11:122 (2013)

Schwartz, M.W.\*, Seeley, R.J.\*, Tschöp, M.H., Woods, S.C.\*, Morton, G.J.\*, Myers, M.G.\*, D'Allesio, D.\*: Cooperation between brain and islet in glucose homeostasis and diabetes. *Nature* **503**, 59-66 (2013)

Schwartz, P.J.\*, Crotti, L., Insolia, R.\*: Long-QT syndrome: From genetics to management. *Circ.-Arrhythmia Electrophysiol.* **5**, 868-877 (2012)

Sengupta, A.\*, Lichti, U.F.\*, Carlson, B.A.\*, Cataisson, C.\*, Ryscavage, A.O.\*, Mikulec, C.\*, Conrad, M., Fischer, S.M.\*, Hatfield, D.L.\*, Yuspa, S.H.\*: Targeted disruption of glutathione peroxidase 4 in mouse skin epithelial cells impairs postnatal hair follicle morphogenesis that is partially rescued through inhibition of COX-2. *J. Invest. Dermatol.* **133**, 1731-1741 (2013)

Serr, I., Weigmann, B.\*, Franke, R.K., Daniel, C.: Treg vaccination in autoimmune type 1 diabetes. *Biodrugs* **28**, 7-16 (2014) [published online 2013]

German Research Center for Environmental Health

## **Publication List 2013**

2014-03-07

\* external authors are starred

## **Systemic Analysis of Multifactorial Diseases**

Siegfried, A.\*, Berchtold, S.\*, Manncke, B.\*, Deuschle, E.\*, Reber, J.\*, Ott, T.\*, Weber, M.\*, Kalinke, U.\*, Hofer, M.J.\*, Hatesuer, B.\*, Schughart, K.\*, Gailus-Durner, V., Fuchs, H., Hrabé de Angelis, M., Weber, F.\*, Hornef, M.W.\*, Autenrieth, I.B.\*, Bohn, E.\*: IFIT2 is an effector protein of type 1 IFN-mediated amplification of lipopolysaccharide (LPS)-induced TNF-α secretion and LPS-induced endotoxin shock. *J. Immunol.* **191**, 3913-3921 (2013)

Siegl, C.\*, Hamminger, P.\*, Jank, H.\*, Ahting, U.\*, Bader, B.\*, Danek, A.\*, Gregory, A.\*, Hartig, M.\*, Hayflick, S.\*, Hermann, A.\*, Prokisch, H., Sammler, E.M.\*, Yapici, Z.\*, Prohaska, R.\*, Salzer, U.\*: Alterations of red cell membrane properties in neuroacanthocytosis. *PLoS ONE* **8**:e76715 (2013)

Silbernagel, G.\*, Machann, J., Häring, H.-U., Fritsche, A., Peter, A.\*: Plasminogen activator inhibitor-1, monocyte chemoattractant protein-1, e-selectin and C-reactive protein levels in response to 4-week very-high-fructose or -glucose diets. *Eur. J. Clin. Nutr.* **68**, 97–100 (2014) [published online 2013]

Sim, N.\*, Gottschalk, S., Pal, R.\*, Engelmann, J.\*, Parker, D.\*, Mishra, A.: Responsive MR-imaging probes for *N*-methyl-<sup>D</sup>-aspartate receptors and direct visualisation of the cell-surface receptors by optical microscopy. *Chem. Sci.* **4**, 3148-3153 (2013)

Simon, M.M.\*, Greenaway, S.\*, White, J.K.\*, Fuchs, H., Gailus-Durner, V., Sorg, T.\*, Wong, K.\*, Bedu, E.\*, Cartwright, E.J.\*, Dacquin, R.\*, Estabel, J.\*, Graw, J., Ingham, N.J.\*, Jackson, I.J.\*, Lengeling, A.\*, Mandillo, S.\*, Marvel, J.\*, Meziane, H.\*, Preitner, F.\*, Puk, O., Roux, M.\*, Adams, D.J.\*, Atkins, S.\*, Ayadi, A.\*, Becker, L., Blake, A.\*, Brooker, D.\*, Cater, H.\*, Champy, M.-F.\*, Combe, R.\*, Danecek, P.\*, di Fenza, A.\*, Gates, H.\*, Gerdin, A.-K.\*, Golini, E.\*, Hancock, J.M.\*, Hans, W., Hölter, S.M., Hough, T.\*, Jurdic, P.\*, Keane, T.M\*, Morgan, H.\*, Müller, W.\*, Neff, F., Nicholson, G.\*, Pasche, B.\*, Roberson, L.-A.\*, Rozman, J., Sanderson, M.\*, Santos, L.\*, Selloum, M.\*, Shannon, C.\*, Southwell, A.\*, Tocchini-Valentini, G.P.\*, Vancollie, V.E.\*, Wells, S.\*, Westerberg, H.\*, Wurst, W., Zi, M.\*, Yalcin, B.\*, Ramirez-Solis, R.\*, Steel, K.P.\*, Mallon, A.-M.\*, Hrabé de Angelis, M., Herault, Y.\*, Brown, S.D.M.\*: A comparative phenotypic and genomic analysis of C57BL/6J and C57BL/6N mouse strains. *Genome Biol.* 14:R82 (2013)

Sirko, S., Behrendt, G.\*, Johansson, P.A., Tripathi, P., Costa, M.R., Bek, S., Heinrich, C.\*, Tiedt, S.\*, Colak, D., Dichgans, M.\*, Fischer, I.R.\*, Plesnila, N.\*, Staufenbiel, M.\*, Haass, C.\*, Snapyan, M.\*, Saghatelyan, A.\*, Tsai, L.H.\*, Fischer, A.\*, Grobe, K.\*, Dimou, L., Götz, M.: Reactive glia in the injured brain acquire stem cell properties in response to sonic hedgehog. *Cell Stem Cell* **12**, 426-439 (2013)

Snoeks, T.J.\*, van Driel, P.B.\*, Keereweer, S.\*, Aime, S.\*, Brindle, K.M.\*, van Dam, G.M.\*, Löwik, C.W.\*, Ntziachristos, V., Vahrmeijer, A.L.\*: Towards a successful clinical implementation of fluorescence-guided surgery. *Mol. Imaging Biol.*, DOI:10.1007/s11307-013-0707-y (2013)

Spanagel, R.\*, Durstewitz, D.\*, Hansson, A.\*, Heinz, A.\*, Kiefer, F.\*, Köhr, G.\*, Matthäus, F.\*, Nöthen, M.M.\*, Noori, H.R.\*, Obermayer, K.\*, Rietschel, M.\*, Schloss, P.\*, Scholz, H.\*, Schumann, G.\*, Smolka, M.\*, Sommer, W.\*, Vengeliene, V.\*, Walter, H.\*, Wurst, W., Zimmermann, U.\*, Addiction GWAS Resource Group (Stringer, S.\*, Smits, Y.\*, Derks, E.M.\*): A systems medicine research approach for studying alcohol addiction. *Addict. Biol.* **18**, 883-896 (2013)

German Research Center for Environmental Health

## Publication List 2013

2014-03-07

\* external authors are starred

## **Systemic Analysis of Multifactorial Diseases**

Stahl, R., Walcher, T., de Juan Rumero, C.\*, Pilz, G.-A., Cappello, S., Irmler, M., Sanz-Aquela, J.M.\*, Beckers, J., Blum, R.\*, Borrell, V.\*, Götz, M.: Trnp1 regulates expansion and folding of the mammalian cerebral cortex by control of radial glial fate. *Cell* **153**, 535-549 (2013)

Staiger, H., Böhm, A., Scheler, M., Berti, L., Machann, J., Schick, F., Machicao, F., Fritsche, A., Stefan, N., Weigert, C., Krook, A.\*, Häring, H.-U., Hrabé de Angelis, M.: Common genetic variation in the human *FNDC5* locus, encoding the novel muscle-derived 'browning' factor Irisin, determines insulin sensitivity. *PLoS ONE* **8**:e61903 (2013)

Stambolian, D.\*, Wojciechowski, R.\*, Oexle, K.\*, Pirastu, M.\*, Li, X.\*, Raffel, L.J.\*, Cotch, M.F.\*, Chew, E.Y.\*, Klein, B.\*, Klein, R.\*, Wong, T.Y.\*, Simpson, C.L.\*, Klaver, C.C.\*, van Duijn, C.M.\*, Verhoeven, V.J.\*, Baird, P.N.\*, Vitart, V.\*, Paterson, A.D.\*, Mitchell, P.\*, Saw, S.M.\*, Fossarello, M.\*, Kazmierkiewicz, K.\*, Murgia, F.\*, Portas, L.\*, Schache, M.\*, Richardson, A.\*, Xie, J.\*, Wang, J.J.\*, Rochtchina, E.\*, DCCT/EDIC Research Group, Viswanathan, A.C.\*, Hayward, C.\*, Wright, A.F.\*, Polasek, O.\*, Campbell, H.\*, Rudan, I.\*, Oostra, B.A.\*, Uitterlinden, A.G.\*, Hofman, A.\*, Rivadeneira, F.\*, Amin, N.\*, Karssen, L.C.\*, Vingerling, J.R.\*, Hosseini, S.M.\*, Döring, A., Bettecken, T., Vatavuk, Z.\*, Gieger, C., Wichmann, H.-E., Wilson, J.F.\*, Fleck, B.\*, Foster, P.J.\*, Topouzis, F.\*, McGuffin, P.\*, Sim, X.\*, Inouye, M.\*, Holliday, E.G.\*, Attia, J.\*, Scott, R.J.\*, Rotter, J.I.\*, Meitinger, T., Bailey-Wilson, J.E.\*: Meta-analysis of genome-wide association studies in five cohorts reveals common variants in *RBFOX1*, a regulator of tissue-specific splicing, associated with refractive error. *Hum. Mol. Genet.* 22, 2754-2764 (2013)

Stefan, N., Häring, H.-U.: Circulating fetuin-A and free fatty acids interact to predict insulin resistance in humans. *Nat. Med.* **19**, 394-395 (2013)

Stemmer, K., Bielohuby, M.\*, Grayson, B.E.\*, Begg, D.P.\*, Chambers, A.P.\*, Neff, C., Woods, S.C.\*, Erben, R.G.\*, Tschöp, M.H., Bidlingmaier, M.\*, Clemens, T.L.\*, Seeley, R.J.\*: Roux-en-Y gastric bypass surgery but not vertical sleeve gastrectomy decreases bone mass in male rats. *Endocrinology* **154**, 2015-2024 (2013)

Stevanovic, D.\*, Trajkovic, V.\*, Müller-Lühlhoff, S.\*, Brandt, E.\*, Abplanalp, W.\*, Bumke-Vogt, C.\*, Liehl, B.\*, Wiedmer, P.\*, Janjetovic, K.\*, Starcevic, V.\*, Pfeiffer, A.F.\*, Al-Hasani, H.\*, Tschöp, M.H., Castañeda, T.R.\*: Ghrelin-induced food intake and adiposity depend on central mTORC1/S6K1 signaling. *Mol. Cell. Endocrinol.* **381**, 280-290 (2013)

Stogmann, E.\*, Reinthaler, E.\*, ElTawil, S.\*, El Etribi, M.A.\*, Hemeda, M.\*, El Nahhas, N.\*, Gaber, A.M.\*, Fouad, A.\*, Edris, S.\*, Benet-Pagès, A., Eck, S.H., Pataraia, E.\*, Mei, D.\*, Brice, A.\*, Lesage, S.\*, Guerrini, R.\*, Zimprich, F.\*, Strom, T.-M., Zimprich, A.\*: Autosomal recessive cortical myoclonic tremor and epilepsy: Association with a mutation in the potassium channel associated gene *CNTN2*. *Brain* **136**, 1155-1160 (2013)

Stritzker, J.\*, Kirscher, L.\*, Scadeng, M.\*, Deliolanis, N.C., Morscher, S., Symvoulidis, P., Schaefer, K., Zhang, Q.\*, Buckel, L.\*, Hess, M.\*, Donat, U.\*, Bradley, W.G.\*, Ntziachristos, V., Szalay, A.A.\*: Vaccinia virus-mediated melanin production allows MR and optoacoustic deep tissue imaging and laser-induced thermotherapy of cancer. *Proc. Natl. Acad. Sci. U.S.A.* **110**, 3316-3320 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

## **Systemic Analysis of Multifactorial Diseases**

Studt, L.\*, Schmidt, F.J.\*, Jahn, L.\*, Sieber, C.M.K., Connolly, L.R.\*, Niehaus, E.M.\*, Freitag, M.\*, Humpf, H.U.\*, Tudzynski, B.\*: Two histone deacetylases, FfHda1 and FfHda2, are important for secondary metabolism and virulence in *Fusarium fujikuroi*. *Appl. Environ. Microbiol.* **79**, 7719-7734 (2013)

Sun, M., Hölter, S.M., Stepan, J.\*, Garrett, L., Genius, J.\*, Kremmer, E., Hrabé de Angelis, M., Wurst, W., Lie, D.C., Bally-Cuif, L., Eder, M.\*, Rujescu, D.\*, Graw, J.: *Crybb2* coding for βB2-crystallin affects sensorimotor gating and hippocampal function. *Mamm. Genome* **24**, 333-348 (2013)

Swiers, G.\*, Baumann, C.\*, O'Rourke, J.\*, Giannoulatou, E.\*, Taylor, S.\*, Joshi, A.\*, Moignard, V.\*, Pina, C.\*, Bee, T.\*, Kokkaliaris, K.D., Yoshimoto, M.\*, Yoder, M.C.\*, Frampton, J.\*, Schroeder, T., Enver, T.\*, Göttgens, B.\*, de Bruijn, M.F.\*: Early dynamic fate changes in haemogenic endothelium characterized at the single-cell level. *Nat. Commun.* **4**:2924 (2013)

Tapfer, A.\*, Bech, M.\*, Zanette, I.\*, Symvoulidis, P., Stangl, S.\*, Multhoff, G.\*, Molls, M.\*, Ntziachristos, V., Pfeiffer, F.\*: Three-dimensional imaging of whole mouse models: Comparing nondestructive X-ray phase-contrast micro-CT with cryotome-based planar epi-illumination imaging. *J. Microsc.* **253**, 24–30 (2013)

Tetko, I.V., Novotarskyi, S.\*, Sushko, I.\*, Ivanov, V.\*, Petrenko, A.E.\*, Dieden, R.\*, Lebon, F.\*, Mathieu, B.\*: Development of dimethyl sulfoxide solubility models using 163 000 molecules: Using a domain applicability metric to select more reliable predictions. *J. Chem. Inf. Model.* **53**, 1990-2000 (2013)

Tetko, I.V., Sopasakis, P., Kunwar, P., Brandmaier, S., Novoratskyi, S.\*, Charochkina, L.\*, Prokopenko, V.\*, Peijnenburg, W.J.\*: Prioritisation of Polybrominated Diphenyl Ethers (PBDEs) by using the QSPR-THESAURUS web tool. *ATLA-Altern. Lab. Anim.* **41**, 127-135 (2013)

Then, C., Kowall, B.\*, Lechner, A., Meisinger, C., Heier, M., Koenig, W.\*, Peters, A., Thiery, J.\*, Rathmann, W.\*, Seissler, J.: Plasma copeptin levels are inversely associated with intima-media-thickness in men: The population-based KORA F4 study. *Cardiovasc. Diabetol.* **12**:168 (2013)

Then, C., Kowall, B.\*, Lechner, A., Meisinger, C., Heier, M., Koenig, W.\*, Peters, A., Thiery, J.\*, Rathmann, W.\*, Seissler, J.: Plasma MR-proANP levels are associated with carotid intima-media thickness in the general community: The KORA F4 study. *Atherosclerosis* **230**, 235-241 (2013)

Then, C., Wahl, S., Kirchhofer, A.\*, Grallert, H.H., Krug, S., Kastenmüller, G., Römisch-Margl, W., Claussnitzer, M., Illig, T.\*, Heier, M., Meisinger, C., Adamski, J., Thorand, B., Huth, C., Peters, A., Prehn, C., Heukamp, I.\*, Laumen, H., Lechner, A., Hauner, H., Seissler, J.: Plasma metabolomics reveal alterations of sphingo- and glycerophospholipid levels in non-diabetic carriers of the transcription factor 7-like 2 polymorphism rs7903146. *PLoS ONE* 8:e78430 (2013)

Thiele, F., Cohrs, C.M., Przemeck, G.K.H., Wurst, W., Fuchs, H., Hrabé de Angelis, M.: *In vitro* analysis of bone phenotypes in *Col1a1* and *Jagged1* mutant mice using a standardized osteoblast cell culture system. *J. Bone Miner. Metab.* **31**, 293-303 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-03-07

\* external authors are starred

## **Systemic Analysis of Multifactorial Diseases**

Thompson, J.R.\*, Gögele, M.\*, Weichenberger, C.X.\*, Modenese, M.\*, Attia, J.\*, Barrett, J.H.\*, Boehnke, M.\*, de Grandi, A.\*, Domingues, F.S.\*, Hicks, A.A.\*, Marroni, F.\*, Pattaro, C.\*, Ruggeri, F.\*, Borsani, G.\*, Casari, G.\*, Parmigiani, G.\*, Pastore, A.\*, Pfeufer, A., Schwienbacher, C.\*, Taliun, D.\*, CKDGen Consortium, Fox, C.S.\*, Pramstaller, P.P.\*, Minelli, C.\*: SNP prioritization using a Bayesian probability of association. *Genet. Epidemiol.* **37**, 214-221 (2013)

Togliatto, G.\*, Trombetta, A.\*, Dentelli, P.\*, Cotogni, P.\*, Rosso, A.\*, Tschöp, M.H., Granata, R.\*, Ghigo, E.\*, Brizzi, M.F.\*: Unacylated ghrelin promotes skeletal muscle regeneration following hindlimb ischemia via SOD-2-mediated miR-221/222 expression. *J. Am. Heart Assoc.* **2**:e000376 (2013)

Tokarz, J., Norton, W.H.J.\*, Möller, G., Hrabé de Angelis, M., Adamski, J.: Zebrafish 20β-hydroxysteroid dehydrogenase type 2 is important for glucocorticoid catabolism in stress response. *PLoS ONE* **8**:e54851 (2013)

Tokarz, J., Möller, G., Hrabé de Angelis, M., Adamski, J.: Zebrafish and steroids: What do we know and what do we need to know? *J. Steroid Biochem. Mol. Biol.* **137**, 165-173 (2013)

Tong, J.\*, Prigeon, R.L.\*, Davis, H.W.\*, Bidlingmaier, M.\*, Tschöp, M.H., D'Alessio, D.\*: Physiologic concentrations of exogenously infused ghrelin reduces insulin secretion without affecting insulin sensitivity in healthy humans. *J. Clin. Endocrinol. Metab.* **98**, 2536-2543 (2013)

Tong, J.\*, Dave, N.\*, Mugundu, G.M.\*, Davis, H.W.\*, Gaylinn, B.D.\*, Thorner, M.O.\*, Tschöp, M.H., D'Alessio, D.\*, Desai, P.B.\*: The pharmacokinetics of acyl, des-acyl, and total ghrelin in healthy human subjects. *Eur. J. Endocrinol.* **168**, 821-828 (2013)

Trabzuni, D.\*, Ryten, M.\*, Emmett, W.\*, Ramasamy, A.\*, Lackner, K.J.\*, Zeller, T.\*, Walker, R.\*, Smith, C.\*, Lewis, P.A.\*, Mamais, A.\*, de Silva, R.\*, Vandrovcova, J.\*, International Parkinson's Disease Genomics Consortium (IPDGC) (Illig, T., Lichtner, P.), Hernandez, D.\*, Nalls, M.A.\*, Sharma, M.\*, Garnier, S.\*, Lesage, S.\*, Simon-Sanchez, J.\*, Gasser, T.\*, Heutink, P.\*, Brice, A.\*, Singleton, A.\*, Cai, H.\*, Schadt, E.\*, Wood, N.W.\*, Bandopadhyay, R.\*, Weale, M.E.\*, Hardy, J.\*, Plagnol, V.\*: Fine-mapping, gene expression and splicing analysis of the disease associated *LRRK2* locus. *PLoS ONE* **8**:e70724 (2013)

Trenkwalder, C.\*, Benes, H.\*, Grote, L.\*, García-Borreguero, D.\*, Högl, B.\*, Hopp, M.\*, Bosse, B.\*, Oksche, A.\*, Reimer, K.\*, Winkelmann, J., Allen, R.P.\*, Kohnen, R.\*: Prolonged release oxycodone-naloxone for treatment of severe restless legs syndrome after failure of previous treatment: A double-blind, randomised, placebo-controlled trial with an open-label extension. *Lancet Neurol.* **12**, 1141-1150 (2013)

Treutlein, G.\*, Deeg, C.A.\*, Hauck, S.M., Amann, B.\*, Hartmann, K.\*, Dorsch, R.\*: Follow-up protein profiles in urine samples during the course of obstructive feline idiopathic cystitis. *Vet. J.* **198**, 625-630 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-03-07

\* external authors are starred

## **Systemic Analysis of Multifactorial Diseases**

Tripathi, P.P.\*, Giovannantonio, L.G.\*, Sanguinetti, E.\*, Acampora, D.\*, Allegra, M.\*, Caleo, M.\*, Wurst, W., Simeone, A.\*, Bozzi, Y.\*: Increased dopaminergic innervation in the brain of conditional mutant mice overexpressing Otx2: Effects on locomotor behaviour and seizure susceptibility. *Neuroscience* **261**, 173–183 (2014) [published online 2013]

Tripsianes, K., Chu, N.K.\*, Friberg, A., Sattler, M., Becker, C.F.\*: Studying weak and dynamic interactions of posttranslationally modified proteins using expressed protein ligation. *ACS Chem. Biol.* **9**, 347–352 (2014) [published online 2013]

Tyanova, S.\*, Cox, J.\*, Olsen, J.\*, Mann, M.\*, Frishman, D.: Phosphorylation variation during the cell cycle scales with structural propensities of proteins. *PLoS Comput. Biol.* **9**:e1002842 (2013)

Tzoumas, S., Deliolanis, N., Morscher, S., Ntziachristos, V.: Un-mixing molecular agents from absorbing tissue in multispectral optoacoustic tomography. *IEEE Trans. Med. Imaging* **33**, 48-60 (2014) [published online 2013]

van der Schot, G.\*, Zhang, Z.\*, Vernon, R.\*, Shen, Y.\*, Vranken, W.F.\*, Baker, D.\*, Bonvin, A.M.\*, Lange, O.F.: Improving 3D structure prediction from chemical shift data. *J. Biomol. NMR* **57**, 27-35 (2013)

van Oosten, M.\*, Schäfer, T.\*, Gazendam, J.A.\*, Ohlsen, K.\*, Tsompanidou, E.\*, de Goffau, M.C.\*, Harmsen, H.J.\*, Crane, L.M.\*, Lim, E.\*, Francis, K.P.\*, Cheung, L.\*, Olive, M.\*, Ntziachristos, V., van Dijl, J.M.\*, van Dam, G.M.\*: Real-time *in vivo* imaging of invasive- and biomaterial-associated bacterial infections using fluorescently labelled vancomycin. *Nat. Commun.* **4**:2584 (2013)

Vehik, K.\*, Fiske, S.W.\*, Logan, C.A.\*, Agardh, D.\*, Cilio, C.M.\*, Hagopian, W.\*, Simell, O.\*, Roivainen, M.\*, She, J.X.\*, Briese, T.\*, Oikarinen, S.\*, Hyoty, H.\*, Ziegler, A.-G., Rewers, M.\*, Lernmark, A.\*, Akolkar, B.\*, Krischer, J.P.\*, Burkhardt, B.R.\*: Methods, quality control and specimen management in an international multicentre investigation of type 1 diabetes: TEDDY. *Diabetes Metab. Res. Rev.* **29**, 557-567 (2013)

Veiga-Crespo, P.\*, del Río, P., Blindert, M., Ueffing, M.\*, Hauck, S.M., Vecino, E.\*: Phenotypic map of porcine retinal ganglion cells. *Mol. Vis.* **19**, 904-916 (2013)

Velvarska, H., Niessing, D.: Purification, crystallization and preliminary crystallographic analysis of the globular domain of the human type V myosin Myo5a. *Acta Crystallogr. F-Struct. Biol. Cryst. Commun.* **69**, 1220-1223 (2013)

Velvarska, H., Niessing, D.: Structural insights into the globular tails of the human type V myosins Myo5a, Myo5b, and Myo5c. *PLoS ONE* **8**:e82065 (2013)

Venit, T.\*, Dzijak, R.\*, Kalendova, A.\*, Kahle, M.\*, Rohozkova, J.\*, Schmidt, V.\*, Rülicke, T.\*, Rathkolb, B., Hans, W., Bohla, A., Eickelberg, O., Stoeger, T., Wolf, E.\*, Yildirim, A.Ö., Gailus-Durner, V., Fuchs, H., Hrabé de Angelis, M., Hozak, P.\*: Mouse nuclear myosin 1 knock-out shows interchangeability and redundancy of myosin isoforms in the cell nucleus. *PLoS ONE* **8**:e61406 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-03-07

\* external authors are starred

## **Systemic Analysis of Multifactorial Diseases**

Vernon, R.\*, Shen, Y.\*, Baker, D.\*, Lange, O.F.: Improved chemical shift based fragment selection for CS-Rosetta using Rosetta3 fragment picker. *J. Biomol. NMR* **57**, 117-127 (2013)

Viganò, F., Möbius, W.\*, Götz, M., Dimou, L.: Transplantation reveals regional differences in oligodendrocyte differentiation in the adult brain. *Nat. Neurosci.* **16**, 1370-1372 (2013)

Vionnet, L., Gateau, J., Schwarz, M., Bühler, A., Ermolayev, V., Ntziachristos, V.: 24MHz scanner for optoacoustic imaging of skin and burn. *IEEE Trans. Med. Imaging* **33**, 535-545 (2014) [published online 2013]

Vogel, J.\*, Lasser, T., Gardiazabal, J.\*, Navab, N.\*: Trajectory optimization for intra-operative nuclear tomographic imaging. *Med. Image Anal.* **17**, 723-731 (2013)

Vogt, A.\*, Fuerholzner, B.\*, Kinkl, N.\*, Boldt, K.\*, Ueffing, M.: Isotope Coded Protein Labeling Coupled Immunoprecipitation (ICPL-IP): A novel approach for quantitative protein complex analysis from native tissue. *Mol. Cell. Proteomics* **12**, 1395-1406 (2013)

Voigt, K., Scherb, H., Brüggemann, R.\*, Schramm, K.-W.: Discrete mathematical data analysis approach: A valuable assessment method for sustainable chemistry. *Sci. Total Environ.* **454-455**, 149-153 (2013)

Voigt, K., Brüggemann, R.\*, Scherb, H., Cok, I.\*, Mazmanci, B.\*, Mazmanci, M.A.\*, Turgut, C.\*, Schramm, K.-W.: Evaluation of organochlorine pesticides in breast milk samples in Turkey applying features of the partial order technique. *Int. J. Environ. Health Res.* **23**, 226-246 (2013)

von Schnurbein, J.\*, Heni, M.\*, Moss, A.\*, Nagel, S.A.\*, Machann, J., Muehleder, H.\*, Debatin, K.M.\*, Farooqi, S.\*, Wabitsch, M.\*: Rapid improvement of hepatic steatosis after initiation of leptin substitution in a leptin-deficient girl. *Horm. Res. Paediatr.* **79**, 310-317 (2013)

von Toerne, C., Kahle, M., Schäfer, A., Ispiryan, R., Blindert, M., Hrabé de Angelis, M., Neschen, S., Ueffing, M., Hauck, S.M.: Apoe, Mbl2 and Psp plasma protein levels correlate with diabetic phenotype in NZO mice - an optimized rapid workflow for SRM-based quantification. *J. Proteome Res.* **12**, 1331-1343 (2013)

Wagner, R.\*, Heni, M.\*, Linder, K.\*, Ketterer, C.\*, Peter, A.\*, Böhm, A.\*, Hatziagelaki, E.\*, Stefan, N., Staiger, H., Häring, H.-U., Fritsche, A.: Age-dependent association of serum prolactin with glycaemia and insulin sensitivity in humans. *Acta Diabetol.* **51**, 71-78 (2014) [published online 2013]

Wagner, R., Thorand, B., Osterhoff, M.A., Müller, G., Böhm, A., Meisinger, C., Kowall, B., Rathmann, W., Kronenberg, F.\*, Staiger, H., Stefan, N., Roden, M., Schwarz, P.E., Pfeiffer, A.F., Häring, H.-U., Fritsche, A.: Family history of diabetes is associated with higher risk for prediabetes: A multicentre analysis from the German Center for Diabetes Research. *Diabetologia* **56**, 2176-2180 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

## **Systemic Analysis of Multifactorial Diseases**

Wagner, R., Kaiser, G.\*, Gerst, F., Christiansen, E.\*, Due-Hansen, M.E.\*, Grundmann, M.\*, Machicao, F., Peter, A., Kostenis, E.\*, Ulven, T.\*, Fritsche, A., Häring, H.-U., Ullrich, S.: Reevaluation of fatty acid receptor 1 as a drug target for the stimulation of insulin secretion in humans. *Diabetes* **62**, 2106-2111 (2013)

Wahl, V.\*, Vogler, S.\*, Grosche, A.\*, Pannicke, T.\*, Ueffing, M., Wiedemann, P.\*, Reichenbach, A.\*, Hauck, S.M., Bringmann, A.\*: Osteopontin inhibits osmotic swelling of retinal glial (Müller) cells by inducing release of VEGF. *Neuroscience* **246**, 59-72 (2013)

Walcher, T., Xie, Q.\*, Sun, J.\*, Irmler, M., Beckers, J., Öztürk, T., Niessing, D., Stoykova, A.\*, Cvekl, A.\*, Ninkovic, J., Götz, M.-L.: Functional dissection of the paired domain of Pax6 reveals molecular mechanisms of coordinating neurogenesis and proliferation. *Development* **140**, 1123-1136 (2013)

Wang, X.D.\*, Su, Y.A.\*, Wagner, K.V.\*, Avrabos, C.\*, Scharf, S.H.\*, Hartmann, J.\*, Wolf, M.\*, Liebl, C.\*, Kühne, C.\*, Wurst, W., Holsboer, F.\*, Eder, M.\*, Deussing, J.M.\*, Müller, M.B.\*, Schmidt, M.V.\*: Nectin-3 links CRHR1 signaling to stress-induced memory deficits and spine loss. *Nat. Neurosci.* **16**, 706-713 (2013)

Warncke, K., Krasmann, M., Puff, R., Dunstheimer, D.\*, Ziegler, A.-G., Beyerlein, A.: Does diabetes appear in distinct phenotypes in young people? Results of the diabetes mellitus Incidence Cohort Registry (DiMelli). *PLoS ONE* 8:e74339 (2013)

Wefers, B., Meyer, M., Ortiz, O., Hrabé de Angelis, M., Hansen, J., Wurst, W., Kühn, R.: Direct production of mouse disease models by embryo microinjection of TALENs and oligodeoxynucleotides. *Proc. Natl. Acad. Sci. U.S.A.* **110**, 3782-3787 (2013)

Wefers, B., Panda, S.K., Ortiz, O., Brandl, C., Hensler, S., Hansen, J., Wurst, W., Kühn, R.: Generation of targeted mouse mutants by embryo microinjection of TALEN mRNA. *Nat. Protoc.* **8**, 2355-2379 (2013)

Westra, H.J.\*, Peters, M.J.\*, Esko, T.\*, Yaghootkar, H.\*, Schurmann, C.\*, Kettunen, J.\*, Christiansen, M.W.\*, Fairfax, B.P.\*, Schramm, K., Powell, J.E.\*, Zhernakova, A.\*, Zhernakova, D.V.\*, Veldink, J.H.\*, van den Berg, L.H.\*, Karjalainen, J.\*, Withoff, S.\*, Uitterlinden, A.G.\*, Hofman, A.\*, Rivadeneira, F.\*, 't Hoen, P.A.\*, Reinmaa, E.\*, Fischer, K.\*, Nelis, M.\*, Milani, L.\*, Melzer, D.\*, Ferrucci, L.\*, Singleton, A.B.\*, Hernandez, D.G.\*, Nalls, M.A.\*, Homuth, G.\*, Nauck, M.\*, Radke, D.\*, Völker, U.\*, Perola, M.\*, Salomaa, V.\*, Brody, J.\*, Suchy-Dicey, A.\*, Gharib, S.A.\*, Enquobahrie, D.A.\*, Lumley, T.\*, Montgomery, G.W.\*, Makino, S.\*, Prokisch, H., Herder, C.\*, Roden, M.\*, Grallert, H.H., Meitinger, T., Strauch, K., Li, Y.\*, Jansen, R.C.\*, Visscher, P.M.\*, Knight, J.C.\*, Psaty, B.M.\*, Ripatti, S.\*, Teumer, A.\*, Frayling, T.M.\*, Metspalu, A.\*, van Meurs, J.B.\*, Franke, L.\*: Systematic identification of *trans* eQTLs as putative drivers of known disease associations. *Nat. Genet.* **45**, 1238-1243 (2013)

Widmann, P.\*, Reverter, A.\*, Fortes, M.R.\*, Weikard, R.\*, Suhre, K., Hammon, H.\*, Albrecht, E.\*, Kuehn, C.\*: A systems biology approach using metabolomic data reveals genes and pathways interacting to modulate divergent growth in cattle. *BMC Genomics* **14**:798 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-03-07

\* external authors are starred

## **Systemic Analysis of Multifactorial Diseases**

Wiemann, P.\*, Sieber, C.M.K., von Bargen, K.W.\*, Studt, L.\*, Niehaus, E.-M.\*, Espino, J.J.\*, Huß, K.\*, Michielse, C.B.\*, Albermann, S.\*, Wagner, D.\*, Bergner, S.V.\*, Connolly, L.R.\*, Fischer, A.\*, Reuter, G.\*, Kleigrewe, K.\*, Bald, T.\*, Wingfield, B.D.\*, Ophir, R.\*, Freeman, S.\*, Hippler, M.\*, Smith, K.M.\*, Brown, D.W.\*, Proctor, R.H.\*, Münsterkötter, M., Freitag, M.\*, Humpf, H.-U.\*, Güldener, U., Tudzynski, B.\*: Deciphering the cryptic genome: Genome-wide analyses of the rice pathogen *Fusarium fujikuroi* reveal complex regulation of secondary metabolism and novel metabolites. *PLoS Pathog.* **9**:e1003475 (2013)

Winkler, C., Schober, E.\*, Ziegler, A.-G., Holl, R.W.\*: Markedly reduced rate of diabetic ketoacidosis at onset of type 1 diabetes in relatives screened for islet autoantibodies. *Pediatr. Diabetes* **13**, 308-313 (2012)

Wittmann, D.M., Hock, S., Theis, F.J.: Truth-content and phase transitions of random boolean networks with generic logics. *SIAM J. Appl. Dyn. Syst.* **12**, 315-351 (2013)

Wolf, M.\*, Chen, S.\*, Zhao, X.\*, Scheler, M., Irmler, M., Staiger, H., Beckers, J., Hrabé de Angelis, M., Fritsche, A., Häring, H.-U., Schleicher, E.D., Xu, G.\*, Lehmann, R., Weigert, C.: Production and release of acylcarnitines by primary myotubes reflect the differences in fasting fat oxidation of the donors. *J. Clin. Endocrinol. Metab.* **98**, E1137-E1142 (2013)

Wurst, W., Prakash, N.: Wnt1-regulated genetic networks in midbrain dopaminergic neuron development. *J. Mol. Cell Biol.* **6**, 34-41 (2014) [published online 2013]

Xie, Q.\*, Yang, Y.\*, Huang, J.\*, Ninkovic, J., Walcher, T., Wolf, L.\*, Vitenzon, A.\*, Zheng, D.Y.\*, Götz, M., Beebe, D.C.\*, Zavadil, J.\*, Cvekl, A.\*: Pax6 Interactions with chromatin and identification of its novel direct target genes in lens and forebrain. *PLoS ONE* **8**:e54507 (2013)

Yin, P.\*, Peter, A., Franken, H.\*, Zhao, X.\*, Neukamm, S.S., Rosenbaum, L.\*, Lucio, M., Zell, A.\*, Häring, H.-U., Xu, G.\*, Lehmann, R.: Preanalytical aspects and sample quality assessment in metabolomics studies of human blood. *Clin. Chem.* **59**, 833-845 (2013)

Zech, M., Gross, N.\*, Jochim, A.\*, Castrop, F., Kaffe, M., Dresel, C.\*, Lichtner, P., Peters, A., Gieger, C., Meitinger, T., Haslinger, B.\*, Winkelmann, J.: Rare sequence variants in ANO3 and GNAL in a primary torsion dystonia series and controls. *Mov. Disord.* **29**, 143–147 (2014) [published online 2013]

Zhang, Y.-Y., Madl, T., Bagdiul, I.\*, Kern, T., Kang, H.-S., Zou, P., Mäusbacher, N.\*, Sieber, S.A.\*, Krämer, A.\*, Sattler, M.: Structure, phosphorylation and U2AF65 binding of the N-terminal domain of splicing factor 1 during 3'-splice site recognition. *Nucleic Acids Res.* **41**, 1343-1354 (2013)

Zhang, Z.\*, Lange, O.F.: Replica exchange improves sampling in low-resolution docking stage of RosettaDock. *PLoS ONE* **8**:e72096 (2013)

Ziegler, A.-G., Rewers, M.\*, Simell, O.\*, Simell, T.\*, Lempainen, J.\*, Steck, A.\*, Winkler, C., Ilonen, J.\*, Veijola, R.\*, Knip, M.\*, Bonifacio, E.\*, Eisenbarth, G.S.\*: Seroconversion to multiple islet autoantibodies and risk of progression to diabetes in children. *JAMA* **309**, 2473-2479 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

## **Systemic Analysis of Multifactorial Diseases**

Zukunft, S., Sorgenfrei, M., Prehn, C., Möller, G., Adamski, J.: Targeted metabolomics of dried blood spot extracts. *Chromatographia* **76**, 1295-1305 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

### **Terrestrial Environment**

Allan, E.\*, Weisser, W.W.\*, Fischer, M.\*, Schulze, E.D.\*, Weigelt, A.\*, Roscher, C.\*, Baade, J.\*, Barnard, R.L.\*, Beßler, H.\*, Buchmann, N.\*, Ebeling, A.\*, Eisenhauer, N.\*, Engels, C.\*, Fergus, A.J.\*, Gleixner, G.\*, Gubsch, M.\*, Halle, S.\*, Klein, A.M.\*, Kertscher, I.\*, Kuu, A.\*, Lange, M.\*, Le Roux, X.\*, Meyer, S.T.\*, Migunova, V.D.\*, Milcu, A.\*, Niklaus, P.A.\*, Oelmann, Y.\*, Pašalić, E.\*, Petermann, J.S.\*, Poly, F.\*, Rottstock, T.\*, Sabais, A.C.\*, Scherber, C.\*, Scherer-Lorenzen, M.\*, Scheu, S.\*, Steinbeiss, S., Schwichtenberg, G.\*, Temperton, V.\*, Tscharntke, T.\*, Voigt, W.\*, Wilcke, W.\*, Wirth, C.\*, Schmid, B.\*: A comparison of the strength of biodiversity effects across multiple functions. *Oecologia* **173**, 223-237 (2013)

Alqueres, S., Meneses, C.\*, Rouws, L.\*, Rothballer, M., Baldani, I.\*, Schmid, M., Hartmann, A.: The bacterial superoxide dismutase and glutathione reductase are crucial for endophytic colonization of rice roots by *Gluconacetobacter diazotrophicus* PAL5. *Mol. Plant Microbe Interact.* **26**, 937-945 (2013)

Antón, J.\*, Lucio, M., Peña, A.\*, Cifuentes, A.\*, Brito-Echeverría, J.\*, Moritz, F., Tziotis, D., López, C.\*, Urdiain, M.\*, Schmitt-Kopplin, P., Rosselló-Mora, R.\*: High metabolomic microdiversity within co-occurring isolates of the extremely halophilic bacterium *Salinibacter ruber*. *PLoS ONE* **8**:e64701 (2013)

Ariyadasa, R.\*, Mascher, M.\*, Nussbaumer, T., Schulte, D.\*, Frenkel, Z.\*, Poursarebani, N.\*, Zhou, R.\*, Steuernagel, B.\*, Gundlach, H., Taudien, S.\*, Felder, M.\*, Platzer, M.\*, Himmelbach, A.\*, Schmutzer, T.\*, Hedley, P.\*, Muehlbauer, G.\*, Scholz, U.\*, Korol, A.\*, Mayer, K.F.X., Waugh, R.\*, Langridge, P.\*, Graner, A.\*, Stein, N.\*: A sequence-ready physical map of barley anchored genetically by two million single-nucleotide polymorphisms. *Plant Physiol.* **164**, 412-423 (2014) [published online 2013]

Asseng, S.\*, Ewert, F.\*, Rosenzweig, C.\*, Jones, J.W.\*, Hatfield, J.L.\*, Ruane, A.C.\*, Boote, K.J.\*, Thorburn, P.J.\*, Rötter, R.P.\*, Cammarano, D.\*, Brisson, N.\*, Basso, B.\*, Martre, P.\*, Aggarwal, P.K.\*, Angulo, C.\*, Bertuzzi, P.\*, Biernath, C., Challinor, A.J.\*, Doltra, J.\*, Gayler, S.\*, Goldberg, R.\*, Grant, R.\*, Heng, L.\*, Hooker, J.\*, Hunt, L.A.\*, Ingwersen, J.\*, Izaurralde, R.C.\*, Kersebaum, K.C.\*, Müller, C.\*, Naresh Kumar, S.\*, Nendel, C.\*, O'Leary, G.\*, Olesen, J.E.\*, Osborne, T.M.\*, Palosuo, T.\*, Priesack, E., Ripoche, D.\*, Semenov, M.A.\*, Shcherbak, I.\*, Steduto, P.\*, Stöckle, C.\*, Stratonovitch, P.\*, Streck, T.\*, Supit, I.\*, Tao, F.\*, Travasso, M.\*, Waha, K.\*, Wallach, D.\*, White, J.W.\*, Williams, J.R.\*, Wolf, J.\*: Uncertainty in simulating wheat yields under climate change. *Nat. Clim. Chang.* **3**, 827-832 (2013)

Audí-Miró, C.\*, Cretnik, S., Otero, N.\*, Palau, J.\*, Shouakar-Stash, O.\*, Soler, A.\*, Elsner, M.: Cl and C isotope analysis to assess the effectiveness of chlorinated ethene degradation by zero-valent iron: Evidence from dual element and product isotope values. *Appl. Geochem.* **32**, 175-183 (2013)

Avramov, M., Schmidt, S.I., Griebler, C.: A new bioassay for the ecotoxicological testing of VOCs on groundwater invertebrates and the effects of toluene on *Niphargus inopinatus*. *Aquat. Toxicol.* **130**, 1-8 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-03-07

\* external authors are starred

### **Terrestrial Environment**

Avramov, M., Rock, T.M., Pfister, G., Schramm, K.-W., Schmidt, S.I., Griebler, C.: Catecholamine levels in groundwater and stream amphipods and their response to temperature stress. *Gen. Comp. Endocrinol.* **194**, 110-117 (2013)

Bai, M.\*, Wilske, B.\*, Buegger, F., Esperschütz, J., Kammann, C.I.\*, Eckhardt, C.\*, Koestler, M.\*, Kraft, P.\*, Bach, M.\*, Frede, H.-G.\*, Breuer, L.\*: Degradation kinetics of biochar from pyrolysis and hydrothermal carbonization in temperate soils. *Plant Soil* **372**, 375-387 (2013)

Behnke, K., Ghirardo, A., Janz, D.\*, Kanawati, B., Esperschütz, J., Zimmer, I., Schmitt-Kopplin, P., Niinemets, U.\*, Polle, A.\*, Schnitzler, J.-P., Rosenkranz, M.: Isoprene function in two contrasting poplars under salt and sunflecks. *Tree Physiol.* **33**, 562-578 (2013)

Berndt, F.\*, Dobryakov, A.L.\*, Quick, M.\*, Mahrwald, R.\*, Ernsting, N.P.\*, Lenoir, D., Kovalenko, S.A.\*: Long-lived perpendicular conformation in the photoisomerization path of 1,1'-dimethylstilbene and 1,1'-diethylstilbene. *Chem. Phys. Lett.* **544**, 39-42 (2012)

Biernath, C., Bittner, S., Klein, C., Gayler, S.\*, Hentschel, R., Hoffmann, P., Högy, P.\*, Fangmeier, A.\*, Priesack, E.: Modeling acclimation of leaf photosynthesis to atmospheric  $CO_2$  enrichment. *Eur. J. Agron.* **48**, 74-87 (2013)

Bimüller, C.\*, Dannenmann, M.\*, Tejedor, J.\*, von Lützow, M.\*, Buegger, F., Meier, R.\*, Haug, S.\*, Schroll, R., Kögel-Knaber, I.\*: Prolonged summer droughts retard soil N processing and stabilization in organo-mineral fractions. *Soil Biol. Biochem.* **68**, 241-251 (2014) [published online 2013]

Bischoff, J.\*, Mangelsdorf, K.\*, Gattinger, A.\*, Schloter, M., Kurchatova, A.N.\*, Herzschuh, U.\*, Wagner, D.\*: Response of methanogenic archaea to Late Pleistocene and Holocene climate changes in the Siberian Arctic. *Global Biogeochem. Cycles* **27**, 305-317 (2013)

Bolger, M.E.\*, Weisshaar, B.\*, Scholz, U.\*, Stein, N.\*, Usadel, B.\*, Mayer, K.F.X.: Plant genome sequencing - applications for crop improvement. *Curr. Opin. Biotechnol.* **26**, 31-37 (2013)

Bolle, C.\*, Huep, G.\*, Kleinbolting, N.\*, Haberer, G., Mayer, K.F.X., Leister, D.\*, Weisshaar, B.\*: GABI-DUPLO: A collection of double mutants to overcome genetic redundancy in *Arabidopsis thaliana*. *Plant J.* **75**, 157-171 (2013)

Braunschweig, J., Bosch, J., Meckenstock, R.U.: Iron oxide nanoparticles in geomicrobiology: From biogeochemistry to bioremediation. *New Biotech.* **30**, 793-802 (2013)

Callewaert, C.\*, Kerckhof, F.M.\*, Granitsiotis, M.S., van Gele, M.\*, van de Wiele, T.\*, Boon, N.\*: Characterization of *Staphylococcus* and *Corynebacterium* clusters in the human axillary region. *PLoS ONE* **8**:e70538 (2013)

Cataldi, T.R.I.\*, Bianco, G.\*, Fonseca, J., Schmitt-Kopplin, P.: Perceiving the chemical language of gram-negative bacteria: Listening by high-resolution mass spectrometry. *Anal. Bioanal. Chem.* **405**, 493-507 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-03-07

\* external authors are starred

### **Terrestrial Environment**

Chen, L.\*, Bi, Y.H.\*, Zhu, K.X.\*, Hu, Z.Y.\*, Zhao, W.\*, Henkelmann, B., Bernhöft, S., Temoka, C., Schramm, K.-W.: Contamination status of dioxins in sediment cores from the Three Gorges Dam area, China. *Environ. Sci. Pollut. Res.* **20**, 4268-4277 (2013)

Chowdhury, S.P., Dietel, K.\*, Rändeler, M.\*, Schmid, M., Junge, H.\*, Borriss, R.\*, Hartmann, A., Grosch, R.\*: Effects of *Bacillus amyloliquefaciens* FZB42 on lettuce growth and health under pathogen pressure and its impact on the rhizosphere bacterial community. *PLoS ONE* **8**:e68818 (2013)

Cottrell, B.A.\*, Gonsior, M.\*, Isabelle, L.M.\*, Luo, W.\*, Perraud, V.\*, McIntire, T.M.\*, Pankow, J.F.\*, Schmitt-Kopplin, P., Cooper, W.J.\*, Simpson, A.J.\*: A regional study of the seasonal variation in the molecular composition of rainwater. *Atmos. Environ.* **77**, 588-597 (2013)

Cretnik, S., Thoreson, K.A., Bernstein, A., Ebert, K.\*, Buchner, D.\*, Laskov, C.\*, Haderlein, S.\*, Shouakar-Stash, O.\*, Kliegman, S.\*, McNeill, K.\*, Elsner, M.: Reductive dechlorination of TCE by chemical model systems in comparison to dehalogenating bacteria: Insights from dual element isotope analysis (13C/12C, 37Cl/35Cl). *Environ. Sci. Technol.* **47**, 6855-6863 (2013)

Cui, H., Wang, S.-P.\*, Jia, S.-G.\*, Zhang, N.\*, Zhou, Z.Q.\*: Influence of ciprofloxacin on the microbial catabolic diversity in soil. *J. Environ. Sci. Health B* **48**, 869-877 (2013)

Dangel, A., Ackermann, N.\*, Abdel-Hadi, O.\*, Maier, R.\*, Onder, K.\*, Francois, P.\*, Müller, C.W.\*, Pané-Farré, J.\*, Engelmann, S.\*, Schrenzel, J.\*, Heesemann, J.\*, Lindermayr, C.: A *de novo*-designed antimicrobial peptide with activity against multiresistant *Staphylococcus aureus* acting on RsbW kinase. *FASEB J.* **27**, 4476-4488 (2013)

Daniel, H.\*, Gholami, A.M.\*, Berry, D.\*, Desmarchelier, C.\*, Hahne, H.\*, Loh, G.\*, Mondot, S.\*, Lepage, P.\*, Rothballer, M., Walker, A.\*, Böhm, C.\*, Wenning, M.\*, Wagner, M.\*, Blaut, M.\*, Schmitt-Kopplin, P., Kuster, B.\*, Haller, D.\*, Clavel, T.\*: High-fat diet alters gut microbiota physiology in mice. *ISME J.* **8**, 295–308 (2014) [published online 2013]

Dräxl, S., Müller, J., Li, W.B., Michalke, B., Scherb, H., Hense, B.A., Tschiersch, J., Kanter, U., Schäffner, A.R.: Caesium accumulation in yeast and plants is selectively repressed by loss of the SNARE Sec22p/SEC22. *Nat. Commun.* **4**:2092 (2013)

Bolger, M.E.\*, Weisshaar, B.\*, Scholz, U.\*, Stein, N.\*, Usadel, B.\*, Mayer, K.F.X.: Plant genome sequencing - applications for crop improvement. *Curr. Opin. Biotechnol.* **26**, 31-37 (2013)

Eckert, D.\*, Qiu, S., Elsner, M., Cirpka, O.A.\*: Model complexity needed for quantitative analysis of high resolution isotope and concentration data from a toluene-pulse experiment. *Environ. Sci. Technol.* **47**, 6900-6907 (2013)

Farlin, J.\*, Drouet, L.\*, Gallé, T.\*, Pittois, D.\*, Bayerle, M.\*, Braun, C.\*, Maloszewski, P., Vanderborght, J.\*, Elsner, M., Kies, A.\*: Delineating spring recharge areas in a fractured sandstone aquifer (Luxembourg) based on pesticide mass balance. *Hydrogeol. J.* **21**, 799-812 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

### **Terrestrial Environment**

Farlin, J.\*, Maloszewski, P.: On the use of spring baseflow recession for a more accurate parameterization of aquifer transit time distribution functions. *Hydrol. Earth Syst. Sci.* **17**, 1825-1831 (2013)

Farlin, J.\*, Gallé, T.\*, Bayerle, M.\*, Pittois, D.\*, Braun, C.\*, El Khabbaz, H.\*, Elsner, M., Maloszewski, P.: Predicting pesticide attenuation in a fractured aquifer using lumped-parameter models. *Ground Water* **51**, 276-285 (2013)

Fayeulle, A.\*, Veignie, E.\*, Slomianny, C.\*, Dewailly, E.\*, Munch, J.-C., Rafin, C.\*: Energy-dependent uptake of benzo[a]pyrene and its cytoskeleton-dependent intracellular transport by the telluric fungus *Fusarium solani*. *Environ*. *Sci. Pollut*. *Res.* **21**, 3515-3523 (2014) [published online 2013]

Fellner, L.\*, Bechtel, N.\*, Witting, M.A., Simon, S.\*, Schmitt-Kopplin, P., Keim, D.\*, Scherer, S.\*, Neuhaus, K.\*: Phenotype of *htgA* (*mbiA*), a recently evolved orphan gene of *Escherichia coli* and *Shigella*, completely overlapping in antisense to *yaaW. FEMS Microbiol. Lett.* **350**, 57–64 (2014) [published online 2013]

Fenner, K.\*, Canonica, S.\*, Wackett, L.P.\*, Elsner, M.: Evaluating pesticide degradation in the environment: Blind spots and emerging opportunities. *Science* **341**, 752-758 (2013)

Fernández-Remolar, D.C.\*, Chong-Diaz, G.\*, Ruiz-Bermejo, M.\*, Harir, M., Schmitt-Kopplin, P., Tziotis, D., Gomez-Ortiz, D.\*, Garcia-Villadangos, M.\*, Martin-Redondo, M.P.\*, Gomez, F.\*, Rodriguez-Manfredi, J.A.\*, Moreno-Paz, M.\*, de Diego-Castilla, G.\*, Echeverria, A.\*, Urtuvia, V.N.\*, Blanco, Y.\*, Rivas, L.\*, Izawa, M.R.M.\*, Banerjee, N.R.\*, Demergasso, C.\*, Parro, V.\*: Molecular preservation in halite- and perchlorate-rich hypersaline subsurface deposits in the Salar Grande basin (Atacama Desert, Chile): Implications for the search for molecular biomarkers on Mars. *J. Geophys. Res.* **118**, 922-939 (2013)

Fischer, D., Uksa, M.\*, Tischler, W., Kautz, T.\*, Köpke, U.\*, Schloter, M.: Abundance of ammonia oxidizing microbes and denitrifiers in different soil horizons of an agricultural soil in relation to the cultivated crops. *Biol. Fertil. Soils* **49**, 1243-1246 (2013)

Fischer, D., Pagenkemper, S.\*, Nellesen, J.\*, Peth, S.\*, Horn, R.\*, Schloter, M.: Influence of non-invasive X-Ray Computed Tomography (XRCT) on the microbial community structure and function in soil. *J. Microbiol. Methods* **93**, 121-123 (2013)

Forcisi, S., Moritz, F., Kanawati, B., Tziotis, D., Lehmann, R.\*, Schmitt-Kopplin, P.: Liquid chromatography-mass spectrometry in metabolomics research: Mass analyzers in ultra high pressure liquid chromatography coupling. *J. Chromatogr. A* **1292**, 51-65 (2013)

Fuka, M.M., Engel, M., Skelin, A.\*, Matijasic, B.B.\*, Redzepovic, S.\*, Schloter, M.: Culture-independent quantitative approach to monitoring the dynamics of bacterial population during Istrian cheese ripening. *Food Technol. Biotechnol.* **51**, 414-421 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-03-07

\* external authors are starred

### **Terrestrial Environment**

Fuka, M.M., Wallisch, S., Engel, M., Welzl, G., Havranek, J.\*, Schloter, M.: Dynamics of bacterial communities during the ripening process of different Croatian cheese types derived from raw ewe's milk cheeses. *PLoS ONE* **8**:e80734 (2013)

Garcés-Sanchez, G., Wilderer, P.A.\*, Horn, H.\*, Munch, J.-C., Lebuhn, M.\*: Assessment of the viability of *Cryptosporidium parvum* oocysts with the induction ratio of *hsp70* mRNA production in manure. *J. Microbiol. Methods* **94**, 280-289 (2013)

Gayler, S.\*, Ingwersen, J.\*, Priesack, E., Wöhling, T.\*, Wulfmeyer, V.\*, Streck, T.\*: Assessing the relevance of subsurface processes for the simulation of evapotranspiration and soil moisture dynamics with CLM3.5: Comparison with field data and crop model simulations. *Environ. Earth Sci.* **69**, 415-427 (2013)

Giebler, J.\*, Wick, L.Y.\*, Schloter, M., Harms, H.\*, Chatzinotas, A.\*: Evaluating the assignment of *alk*B terminal restriction fragments and sequence types to distinct bacterial taxa. *Appl. Environ. Microbiol.* **79**, 3129-3132 (2013)

Gläser, K.\*, Kanawati, B., Kubo, T.\*, Schmitt-Kopplin, P., Grill, E.\*: Exploring the Arabidopsis sulfur metabolome. *Plant J.* **77**, 31–45 (2013)

Gonsior, M.\*, Schmitt-Kopplin, P., Bastviken, D.\*: Depth-dependent molecular composition and photo-reactivity of dissolved organic matter in a boreal lake under winter and summer conditions. *Biogeosciences* **10**, 6945-6956 (2013)

Gözdereliler, E., Boon, N.\*, Aamand, J.\*, de Roy, K.\*, Granitsiotis, M.S., Albrechtsen, H.J.\*, Sørensen, S.R.\*: Comparing metabolic functionalities, community structures, and dynamics of herbicide-degrading communities cultivated with different substrate concentrations. *Appl. Environ. Microbiol.* **79**, 367-375 (2013)

Grigulis, K.\*, Lavorel, S.\*, Krainer, U.\*, Legay, N.\*, Baxendale, C.\*, Dumont, M.\*, Kastl, E.-M., Arnoldi, C.\*, Bardgett, R.D.\*, Poly, F.\*, Pommier, T.\*, Schloter, M., Tappeiner, U.\*, Bahn, M.\*, Clément, J.-C.\*: Relative contributions of plant traits and soil microbial properties to mountain grassland ecosystem services. *J. Ecol.* **101**, 47-57 (2013)

Gugerli, F.\*, Brandl, R.\*, Castagneyrol, B.\*, Franc, A.\*, Jactel, H.\*, Koelewijn, H.-P.\*, Martin, F.\*, Peter, M.\*, Pritsch, K., Schröder, H.\*, Smulders, M.J.M.\*, Kremer, A.\*, Ziegenhagen, B.\*, Evoltree JERA3 Contributors\*: Community genetics in the time of next-generation molecular technologies. *Mol. Ecol.* **22**, 3198-3207 (2013)

Hakenjos, J.P.\*, Bejai, S.\*, Ranftl, Q.\*, Behringer, C.\*, Vlot, A.C., Absmanner, B.\*, Hammes, U.\*, Heinzlmeir, S.\*, Kuster, B.\*, Schwechheimer, C.\*: ML3 is a NEDD8- and ubiquitin-modified protein. *Plant Physiol.* **163**, 135-149 (2013)

Harir, M., Chnirheb, A., Kanawati, B., El Azzouzi, M.\*, Schmitt-Kopplin, P.: Chromatography and high-resolution mass spectrometry for the characterization of the degradation products of the photodegradation of amidosulfuron: An analytical approach. *J. Agric. Food Chem.* **61**, 5271-5278 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

### **Terrestrial Environment**

Hartmann, A.\*, Wagener, T.\*, Rimmer, A.\*, Lange, J.\*, Brielmann, H., Weiler, M.\*: Testing the realism of model structures to identify karst system processes using water quality and quantity signatures. *Water Resour. Res.* **49**, 3345-3358 (2013)

Hentschel, R., Bittner, S., Janott, M., Biernath, C., Holst, J.\*, Ferrio, J.P.\*, Gessler, A.\*, Priesack, E.: Simulation of stand transpiration based on a xylem water flow model for individual trees. *Agr. Forest Meteorol.* **182**, 31-42 (2013)

Hertkorn, N., Harir, M., Koch, B.P.\*, Michalke, B., Schmitt-Kopplin, P.: High-field NMR spectroscopy and FTICR mass spectrometry: Powerful discovery tools for the molecular level characterization of marine dissolved organic matter. *Biogeosciences* **10**, 1583-1624 (2013)

Holbeck, B.\*, Amelung, W.\*, Wolf, A.\*, Südekum, K.-H.\*, Schloter, M., Welp, G.\*: Recoveries of <sup>15</sup>N-labelled fertilizers (chicken manure, mushroom compost and potassium nitrate) in arable topsoil after autumn application to winter cover crops. *Soil Tillage Res.* **130**, 120-127 (2013)

Hurwitz, B.L.\*, Deng, L., Poulos, B.T.\*, Sullivan, M.B.\*: Evaluation of methods to concentrate and purify ocean virus communities through comparative, replicated metagenomics. *Environ. Microbiol.* **15**, 1428-1440 (2013)

Irmisch, S.\*, Andrea, C.M.\*, Boeckler, G.A.\*, Schmidt, A.\*, Reichelt, M.\*, Schneider, B.\*, Block, K., Schnitzler, J.P., Gershenzon, J.\*, Unsicker, S.B.\*, Köllner, T.G.\*: Two herbivore-induced cytochrome P450 enzymes CYP79D6 and CYP79D7 catalyze the formation of volatile aldoximes involved in poplar defense. *Plant Cell* **25**, 4737-4754 (2013)

Jacquemin, J.\*, Ammiraju, J.S.\*, Haberer, G., Billheimer, D.D.\*, Yu, Y.\*, Liu, L.C.\*, Rivera, L.F.\*, Mayer, K.F.X., Chen, M.\*, Wing, R.A.\*: 15 MYA of evolution in the Oryza genus shows extensive gene family expansion. *Mol. Plant.*, DOI:10.1093/mp/sst149 (2013)

Jha, B.\*, Kavita, K.\*, Westphal, J., Hartmann, A., Schmitt-Kopplin, P.: Quorum sensing inhibition by *Asparagopsis taxiformis*, a marine macro alga: Separation of the compound that interrupts bacterial communication. *Mar. Drugs* **11**, 253-265 (2013)

Jia, J.\*, Zhao, S.\*, Kong, X.\*, Li, Y.\*, Zhao, G.\*, He, W.\*, Appels, R.\*, Pfeifer, M., Tao, Y.\*, Zhang, X.\*, Jing, R.\*, Zhang, C.\*, Ma, Y.\*, Gao, L.\*, Gao, C.\*, Spannagl, M., Mayer, K.F.X., Li, D.\*, Pan, S.\*, Zheng, F.\*, Hu, Q.\*, Xia, X.\*, Li, J.\*, Liang, Q.\*, Chen, J.\*, Wicker, T.\*, Gou, C.\*, Kuang, H.\*, He, G.\*, Luo, Y.\*, Keller, B.\*, Xia, Q.\*, Lu, P.\*, Wang, J.\*, Zou, H.\*, Zhang, R.\*, Xu, J.\*, Gao, J.\*, Middleton, C.\*, Quan, Z.\*, Liu, G.\*, International Wheat Genome Sequencing Consortium, Yang, H.\*, Liu, X.\*, He, Z.\*, Mao, L.\*: *Aegilops tauschii* draft genome sequence reveals a gene repertoire for wheat adaptation. *Nature* **496**, 91-95 (2013)

Kanter, U., Heller, W., Durner, J., Winkler, J.B., Engel, M., Behrendt, H., Holzinger, A.\*, Braun, P.\*, Hauser, M.\*, Ferreira, F.\*, Mayer, K.F.X., Pfeifer, M., Ernst, D.: Molecular and immunological characterization of ragweed (*Ambrosia artemisiifolia* L.) pollen after exposure of the plants to elevated ozone over a whole growing season. *PLoS ONE* **8**:e61518 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

### **Terrestrial Environment**

Karacik, B.\*, Okay, O.S.\*, Henkelmann, B., Pfister, G., Schramm, K.-W.: Water concentrations of PAH, PCB and OCP by using semipermeable membrane devices and sediments. *Mar. Pollut. Bull.* **70**, 258-265 (2013)

Kersten, B.\*, Ghirardo, A., Schnitzler, J.-P., Kanawati, B., Schmitt-Kopplin, P., Fladung, M.\*, Schroeder, H.\*: Integrated transcriptomics and metabolomics decipher differences in the resistance of pedunculate oak to the herbivore *Tortrix viridana* L. *BMC Genomics* **14**:737 (2013)

Kiss, A.\*, Lucio, M., Fildier, A.\*, Buisson, C.\*, Schmitt-Kopplin, P., Cren-Olivé, C.\*: Doping control using high and ultra-high resolution mass spectrometry based non-targeted metabolomics-a case study of salbutamol and budesonide abuse. *PLoS ONE* **8**:e74584 (2013)

Klaus, J.\*, Zehe, E.\*, Elsner, M., Kulls, C.\*, McDonnell, J.J.\*: Macropore flow of old water revisited: Experimental insights from a tile-drained hillslope. *Hydrol. Earth Syst. Sci.* **17**, 103-118 (2013)

Kölbl, A.\*, Schad, P.\*, Jahn, R.\*, Amelung, W.\*, Bannert, A., Cao, Z.H.\*, Fiedler, S.\*, Kalbitz, K.\*, Lehndorff, E.\*, Müller-Niggemann, C.\*, Schloter, M., Schwark, L.\*, Vogelsang, V.\*, Wissing, L.\*, Kögel-Knaber, I.\*: Accelerated soil formation due to paddy management on marshlands (Zhejiang Province, China). *Geoderma*, DOI:10.1016/j.geoderma.2013.09.005 (2013)

Kopecky, D.\*, Martis, M.M., Cihalikova, J.\*, Hribova, E.\*, Vrana, J.\*, Bartos, J.\*, Kopecka, J.\*, Cattonaro, F.\*, Stoces, S.\*, Novak, P.\*, Neumann, P.\*, Macas, J.\*, Simková, H.\*, Studer, B.\*, Asp, T.\*, Baird, J.H.\*, Navratil, P.\*, Karafiatova, M.\*, Kubaláková, M.\*, Safar, J.\*, Mayer, K.F.X., Dolezel, J.\*: Flow sorting and sequencing meadow fescue chromosome 4F. *Plant Physiol.* **163**, 1323-1337 (2013)

Krajewski, M.P.\*, Kanawati, B., Fekete, A., Kowalski, N.\*, Schmitt-Kopplin, P., Grill, E.\*: Analysis of Arabidopsis glutathione-transferases in yeast. *Phytochemistry* **91**, 198-207 (2013)

Kranzioch, I.\*, Stoll, C.\*, Holbach, A.\*, Chen, H.\*, Wang, L.\*, Zheng, B.\*, Norra, S.\*, Bi, Y.\*, Schramm, K.-W., Tiehm, A.\*: Dechlorination and organohalide-respiring bacteria dynamics in sediment samples of the Yangtze Three Gorges Reservoir. *Environ. Sci. Pollut. Res.* **20**, 7046-7056 (2013)

Kübeck, C., Maloszewski, P., Benischke, R.\*: Determination of the conduit structure in a karst aquifer based on tracer data - Lurbach system, Austria. *Hydrol. Process.* **27**, 225-235 (2013)

Kugler, K.G., Siegwart, G.\*, Nussbaumer, T., Ametz, C.\*, Spannagl, M., Steiner, B.\*, Lemmens, M.\*, Mayer, K.F.X., Buerstmayr, H.\*, Schweiger, W.\*: Quantitative trait loci-dependent analysis of a gene co-expression network associated with Fusarium head blight resistance in bread wheat (*Triticum aestivum* L.). *BMC Genomics* **14**:728 (2013)

Kustermann, B.\*, Munch, J.-C., Hulsbergen, K.J.\*: Effects of soil tillage and fertilization on resource efficiency and greenhouse gas emissions in a long-term field experiment in Southern Germany. *Eur. J. Agron.* **49**, 61-73 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-03-07

\* external authors are starred

### **Terrestrial Environment**

Larentis, M., Hoermann, K., Lueders, T.: Fine-scale degrader community profiling over an aerobic/anaerobic redox gradient in a toluene-contaminated aquifer. *Environ. Microbiol. Rep.* **5**, 225-234 (2013)

Lavonen, E.E.\*, Gonsior, M.\*, Tranvik, L.J.\*, Schmitt-Kopplin, P., Kohler, S.J.\*: Selective chlorination of natural organic matter: Identification of previously unknown disinfection byproducts. *Environ. Sci. Technol.* **47**, 2264-2271 (2013)

Le Roux, X.\*, Schmid, B.\*, Poly, F.\*, Barnard, R.L.\*, Niklaus, P.A.\*, Guillaumaud, N.\*, Habekost, M.\*, Oelmann, Y.\*, Philippot, L.\*, Salles, J.F.\*, Schloter, M., Steinbeiss, S.\*, Weigelt, A.\*: Soil environmental conditions and microbial build-up mediate the effect of plant diversity on soil nitrifying and denitrifying enzyme activities in temperate grasslands. *PLoS ONE* **8**:e61069 (2013)

Leiminger, J.\*, Auinger, H.-J.\*, Wenig, M., Bahnweg, G., Hausladen, H.\*: Genetic variability among *Alternaria solani* isolates from potatoes in Southern Germany based on PAPD-profiles. *J. Plant Dis. Prot.* **120**, 164-172 (2013)

Lin, S.\*, Liu, H.\*, Kanawati, B., Liu, L.\*, Dong, J.\*, Li, M.\*, Huang, J.\*, Schmitt-Kopplin, P., Cai, Z.\*: Hippocampal metabolomics using ultrahigh-resolution mass spectrometry reveals neuroinflammation from Alzheimer's disease in CRND8 mice. *Anal. Bioanal. Chem.* **405**, 5105-5117 (2013)

Liu, S.\*, Kanawati, B., Liu, L.\*, Witting, M., Li, M.\*, Huang, J.\*, Schmitt-Kopplin, P., Cai, Z.\*: Ultrahigh resolution mass spectrometry-based metabolic characterization reveals cerebellum as a disturbed region in two animal models. *Talanta* **118**, 45-53 (2013)

Livaja, M.\*, Wang, Y.\*, Wieckhorst, S.\*, Haseneyer, G.\*, Seidel, M., Hahn, V.\*, Knapp, S.J.\*, Taudien, S.\*, Schön, C.C.\*, Bauer, E.\*: BSTA: A targeted approach combines bulked segregant analysis with next-generation sequencing and *de novo* transcriptome assembly for SNP discovery in sunflower. *BMC Genomics* **14**:628 (2013)

Luo, M.C.\*, Gu, Y.Q.\*, You, F.M.\*, Deal, K.R.\*, Ma, Y.\*, Hu, Y.\*, Huo, N.\*, Wang, Y.\*, Wang, J.\*, Chen, S.\*, Jorgensen, C.M.\*, Zhang, Y.\*, McGuire, P.E.\*, Pasternak, S.\*, Stein, J.C.\*, Ware, D.\*, Kramer, M.\*, McCombie, W.R.\*, Kianian, S.F.\*, Martis, M.M., Mayer, K.F.X., Sehgal, S.K.\*, Li, W.\*, Gill, B.S.\*, Bevan, M.W.\*, Simková, H.\*, Dolezel, J.\*, Weining, S.\*, Lazo, G.R.\*, Anderson, O.D.\*, Dvorak, J.\*: A 4-gigabase physical map unlocks the structure and evolution of the complex genome of *Aegilops tauschii*, the wheat D-genome progenitor. *Proc. Natl. Acad. Sci. U.S.A.* **110**, 7940-7945 (2013)

Lüpken, T.\*, Stein, N.\*, Perovic, D.\*, Habekuß, A.\*, Krämer, I.\*, Hähnel, U.\*, Steuernagel, B.\*, Scholz, U.\*, Zhou, R.\*, Ariyadasa, R.\*, Taudien, S.\*, Platzer, M.\*, Martis, M.M., Mayer, K.F.X., Friedt, W.\*, Ordon, F.\*: Genomics-based high-resolution mapping of the BaMMV/BaYMV resistance gene *rym11* in barley (*Hordeum vulgare* L.). *Theor. Appl. Genet.* **126**, 1201-1212 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-03-07

\* external authors are starred

### **Terrestrial Environment**

Lüpken, T.\*, Stein, N.\*, Perovic, D.\*, Habekuß, A.\*, Serfling, A.\*, Krämer, I.\*, Hähnel, U.\*, Steuernagel, B.\*, Scholz, U.\*, Ariyadasa, R.\*, Martis, M.M., Mayer, K.F.X., Niks, R.E.\*, Collins, N.C.\*, Friedt, W.\*, Ordon, F.\*: High-resolution mapping of the barley *Ryd3* locus controlling tolerance to BYDV. *Mol. Breed.* **33**, 477-488 (2014) [published online 2013]

Lyubenova, L., Kuhn, A.J.\*, Höltkemeier, A.\*, Schröder, P.: Root exudation pattern of *Typha latifolia* L. plants after copper exposure. *Plant Soil* **370**, 187-195 (2013)

Lyubenova, L., Pongrac, P.\*, Vogel-Mikus, K.\*, Mezek, G.K.\*, Vavpetic, P.\*, Grlj, N.\*, Regvar, M.\*, Pelicon, P.\*, Schröder, P.: The fate of arsenic, cadmium and lead in *Typha latifolia*: A case study on the applicability of micro-PIXE in plant ionomics. *J. Hazard. Mater.* **248**, 371-378 (2013)

Ma, J.\*, Stiller, J.\*, Berkman, P.J.\*, Wei, Y.\*, Rogers, J.\*, Feuillet, C.\*, Dolezel, J.\*, Mayer, K.F.X., Eversole, K.\*, Zheng, Y.L.\*, Liu, C.\*: Sequence-based analysis of translocations and inversions in bread wheat (*Triticum aestivum* L.). *PLoS ONE* **8**:e79329 (2013)

Maier, M.P., Qiu, S., Elsner, M.: Enantioselective Stable Isotope Analysis (ESIA) of polar herbicides. *Anal. Bioanal. Chem.* **405**, 2825-2831 (2013)

Martis, M.M., Zhou, R.\*, Haseneyer, G.\*, Schmutzer, T.\*, Vrana, J.\*, Kubaláková, M.\*, König, S.\*, Kugler, K.G., Scholz, U.\*, Hackauf, B.\*, Korzun, V.\*, Schön, C.C.\*, Dolezel, J.\*, Bauer, E.\*, Mayer, K.F.X., Stein, N.\*: Reticulate evolution of the rye genome. *Plant Cell* **25**, 3685-3698 (2013)

Mascher, M.\*, Muehlbauer, G.J.\*, Rokhsar, D.S.\*, Chapman, J.\*, Schmutz, J.\*, Barry, K.\*, Muñoz-Amatriaín, M.\*, Close, T.J.\*, Wise, R.P.\*, Schulman, A.H.\*, Himmelbach, A.\*, Mayer, K.F.X., Scholz, U.\*, Poland, J.A.\*, Stein, N.\*, Waugh, R.\*: Anchoring and ordering NGS contig assemblies by population sequencing (POPSEQ). *Plant J.* **76**, 718-727 (2013)

Mascher, M.\*, Richmond, T.A.\*, Gerhardt, D.J.\*, Himmelbach, A.\*, Clissold, L.\*, Sampath, D.\*, Ayling, S.\*, Steuernagel, B.\*, Pfeifer, M., D'Ascenzo, M.\*, Akhunov, E.D.\*, Hedley, P.E.\*, Gonzales, A.M.\*, Morrell, P.L.\*, Kilian, B.\*, Blattner, F.R.\*, Scholz, U.\*, Mayer, K.F.X., Flavell, A.J.\*, Muehlbauer, G.J.\*, Waugh, R.\*, Jeddeloh, J.A.\*, Stein, N.\*: Barley whole exome capture: A tool for genomic research in the genus *Hordeum* and beyond. *Plant J.* **76**, 494-505 (2013)

Meyer, A.\*, Focks, A.\*, Radl, V., Keil, D.\*, Welzl, G., Schöning, I.\*, Boch, S.\*, Marhan, S.\*, Kandeler, E.\*, Schloter, M.: Different land use intensities in grassland ecosystems drive ecology of microbial communities involved in nitrogen turnover in soil. *PLoS ONE* **8**:e73536 (2013)

Meyer, A.\*, Focks, A.\*, Radl, V., Welzl, G., Schöning, I.\*, Schloter, M.: Influence of land use intensity on the diversity of ammonia oxidizing bacteria and archaea in soils from grassland ecosystems. *Microb. Ecol.* **67**, 161-166 (2014) [published online 2013]

Meyer, A.H., Elsner, M.: <sup>13</sup>C/<sup>12</sup>C and <sup>15</sup>N/<sup>14</sup>N isotope analysis to characterize degradation of atrazine: Evidence from parent and daughter compound values. *Environ. Sci. Technol.* **47**, 6884-6891 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-03-07

\* external authors are starred

### **Terrestrial Environment**

Milosevic, N.\*, Qiu, S., Elsner, M., Einsiedl, F.\*, Maier, M.P., Bensch, H.K.V., Albrechtsen, H.-J.\*, Bjerg, P.L.\*: Combined isotope and enantiomer analysis to assess the fate of phenoxy acids in a heterogeneous geologic setting at an old landfill. *Water Res.* **47**, 637-649 (2013)

Montero-Calasanz, M.\*, Göker, M.\*, Rohde, M.\*, Spröer, C.\*, Schumann, P.\*, Busse, H.J.\*, Schmid, M., Tindall, B.J.\*, Klenk, H.P.\*, Camacho, M.\*: *Chryseobacterium hispalense* sp. nov., a plant growth-promoting bacterium isolated from a rainwater pond in an olive plant nursery and emendation of the species *Chryseobacterium defluvii*, *Chryseobacterium indologenes*, *Chryseobacterium wanjuense* and *Chryseobacterium gregarium*. *Int. J. Syst. Evol. Microbiol.* **63**, 4386-4395 (2013)

Mouhamadou, B.\*, Puissant, J.\*, Personeni, E.\*, Desclos-Theveniau, M.\*, Kastl, E.-M., Schloter, M., Zinger, L.\*, Roy, J.\*, Geremia, R.A.\*, Lavorel, S.\*: Effects of two grass species on the composition of soil fungal communities. *Biol. Fertil. Soils* **49**, 1131-1139 (2013)

Müller, A.\*, Faubert, P., Hagen, M., zu Castell, W., Polle, A.\*, Schnitzler, J.-P., Rosenkranz, M.: Volatile profiles of fungi - chemotyping of species and ecological functions. *Fungal Genet. Biol.* **54**, 25-33 (2013)

Müller, C., Fonseca, J.R., Rock, T.M., Krauss-Etschmann, S., Schmitt-Kopplin, P.: Enantioseparation and selective detection of D amino acids by ultra-high-performance liquid chromatography/mass spectrometry in analysis of complex biological samples. *J. Chromatogr. A* **1324**, 109–114 (2014) [published online 2013]

Müller, C., Dietz, I.\*, Tziotis, D., Moritz, F., Rupp, J.\*, Schmitt-Kopplin, P.: Molecular cartography in acute *Chlamydia pneumoniae* infections - a non-targeted metabolomics approach. *Anal. Bioanal. Chem.* **405**, 5119-5131 (2013)

Müller, M.\*, Pander, J.\*, Wild, R.\*, Lueders, T., Geist, J.\*: The effects of stream substratum texture on interstitial conditions and bacterial biofilms: Methodological strategies. *Limnologica* **43**, 106-113 (2013)

Müller, V.\*, Albert, A., Winkler, J.B., Lankes, C.\*, Noga, G.\*, Hunsche, M.\*: Ecologically relevant UV-B dose combined with high PAR intensity distinctly affect plant growth and accumulation of secondary metabolites in leaves of *Centella asiatica* L. Urban. *J. Photochem. Photobiol. B-Biol.* **127**, 161-169 (2013)

Mumbo, J., Lenoir, D., Henkelmann, B., Schramm, K.-W.: Enzymatic synthesis of bromo- and chlorocarbazoles and elucidation of their structures by molecular modeling. *Environ. Sci. Pollut. Res.* **20**, 8996-9005 (2013)

Muñoz-Amatriaín, M.\*, Eichten, S.R.\*, Wicker, T.\*, Richmond, T.A.\*, Mascher, M.\*, Steuernagel, B.\*, Scholz, U.\*, Ariyadasa, R.\*, Spannagl, M., Nussbaumer, T., Mayer, K.F.X., Taudien, S.\*, Platzer, M.\*, Jeddeloh, J.A.\*, Springer, N.M.\*, Muehlbauer, G.J.\*, Stein, N.\*: Distribution, functional impact, and origin mechanisms of copy number variation in the barley genome. *Genome Biol.* **14**:R58 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-03-07

\* external authors are starred

### **Terrestrial Environment**

Mußmann, M.\*, Ribot, M.\*, von Schiller, D.\*, Merbt, S.N.\*, Augspurger, C.\*, Karwautz, C., Winkel, M.\*, Battin, T.J.\*, Marti, E.\*, Daims, H.\*: Colonization of freshwater biofilms by nitrifying bacteria from activated sludge. *FEMS Microbiol. Ecol.* **85**, 104-115 (2013)

Neamtu, M.\*, Bobu, M.\*, Kettrup, A., Siminiceanu, I.\*: Ozone photolysis of paracetamol in aqueous solution. *J. Environ. Sci. Health Part A-Toxic/Hazard. Subst. Environ. Eng.* **48**, 1264-1271 (2013)

Ollivier, J., Yang, S.\*, Dörfer, C.\*, Welzl, G., Kühn, P.\*, Scholten, T.\*, Wagner, D.\*, Schloter, M.: Bacterial community structure in soils of the Tibetan Plateau affected by discontinuous permafrost or seasonal freezing. *Biol. Fertil. Soils*, DOI:10.1007/s00374-013-0869-4 (2013)

Otieno, P.O., Owuor, P.O.\*, Lalah, J.O.\*, Pfister, G., Schramm, K.-W.: Comparative evaluation of ELISA kit and HPLC DAD for the determination of chlorpyrifos ethyl residues in water and sediments. *Talanta* **117**, 250-257 (2013)

Otieno, P.O., Owuor, P.O.\*, Lalah, J.O.\*, Pfister, G., Schramm, K.-W.: Impacts of climate-induced changes on the distribution of pesticides residues in water and sediment of Lake Naivasha, Kenya. *Environ. Monit. Assess.* **185**, 2723-2733 (2013)

Pereira e Silva, M.C.\*, Schloter-Hai, B., Schloter, M., van Elsas, J.D.\*, Falcao Salles, J.\*: Temporal dynamics of abundance and composition of nitrogen-fixing communities across agricultural soils. *PLoS ONE* **8**:e74500 (2013)

Pfister, G., Rieb, J., Avramov, M., Rock, T., Griebler, C., Schramm, K.-W.: Detection of catecholamines in single specimens of groundwater amphipods. *Anal. Bioanal. Chem.* **405**, 5571-5582 (2013)

Philippe, R.\*, Paux, E.\*, Bertin, I.\*, Sourdille, P.\*, Choulet, F.\*, Laugier, C.\*, Simková, H.\*, Safar, J.\*, Bellec, A.\*, Vautrin, S.\*, Frenkel, Z.\*, Cattonaro, F.\*, Magni, F.\*, Scalabrin, S.\*, Martis, M.M., Mayer, K.F.X., Korol, A.\*, Bergès, H.\*, Dolezel, J.\*, Feuillet, C.\*: A high density physical map of chromosome 1BL supports evolutionary studies, map-based cloning and sequencing in wheat. *Genome Biol.* **14**:R64 (2013)

Popova, O.P.\*, Jenniskens, P.\*, Emel'yanenko, V.\*, Kartashova, A.\*, Biryukov, E.\*, Khaibrakhmanov, S.\*, Shuvalov, V.\*, Rybnov, Y.\*, Dudorov, A.\*, Grokhovsky, V.I.\*, Badyukov, D.D.\*, Yin, Q.Z.\*, Gural, P.S.\*, Albers, J.\*, Granvik, M.\*, Evers, L.G.\*, Kuiper, J.\*, Kharlamov, V.\*, Solovyov, A.\*, Rusakov, Y.S.\*, Korotkiy, S.\*, Serdyuk, I.\*, Korochantsev, A.V.\*, Larionov, M.Y.\*, Glazachev, D.\*, Mayer, A.E.\*, Gisler, G.\*, Gladkovsky, S.V.\*, Wimpenny, J.\*, Sanborn, M.E.\*, Yamakawa, A.\*, Verosub, K.L.\*, Rowland, D.J.\*, Roeske, S.\*, Botto, N.W.\*, Friedrich, J.M.\*, Zolensky, M.E.\*, Le, L.\*, Ross, D.\*, Ziegler, K.\*, Nakamura, T.\*, Ahn, I.\*, Lee, J.I.\*, Zhou, Q.\*, Li, X.H.\*, Li, Q.L.\*, Liu, Y.\*, Tang, G.Q.\*, Hiroi, T.\*, Sears, D.\*, Weinstein, I.A.\*, Vokhmintsev, A.S.\*, Ishchenko, A.V.\*, Schmitt-Kopplin, P., Hertkorn, N., Nagao, K.\*, Haba, M.K.\*, Komatsu, M.\*, Mikouchi, T.\*, Chelyabinsk Airburst Consortium: Chelyabinsk airburst, damage assessment, meteorite recovery, and characterization. *Science* **342**, 1069-1073 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

### **Terrestrial Environment**

Poursarebani, N.\*, Ariyadasa, R.\*, Zhou, R.\*, Schulte, D.\*, Steuernagel, B.\*, Martis, M.M., Graner, A.\*, Schweizer, P.\*, Scholz, U.\*, Mayer, K.F.X., Stein, N.\*: Conserved synteny-based anchoring of the barley genome physical map. *Funct. Integr. Genomics* **13**, 339-350 (2013)

Prado, K.\*, Boursiac, Y.\*, Tournaire-Roux, C.\*, Monneuse, J.M.\*, Postaire, O.\*, Da Ines, O., Schäffner, A.R., Hem, S.\*, Santoni, V.\*, Maurel, C.\*: Regulation of *Arabidopsis* leaf hydraulics involves light-dependent phosphorylation of aquaporins in veins. *Plant Cell* **25**, 1029-1039 (2013)

Qiu, S., Eckert, D.\*, Cirpka, O.A.\*, Hünniger, M., Knappett, P.S., Maloszewski, P., Meckenstock, R.U., Griebler, C., Elsner, M.: Direct experimental evidence of non-first order degradation kinetics and sorption-induced isotopic fractionation in a mesoscale aquifer: <sup>13</sup>C/<sup>12</sup>C analysis of a transient toluene pulse. *Environ. Sci. Technol.* **47**, 6892-6899 (2013)

Rouws, L.\*, Leite, J.\*, Feitosa de Matos, G.\*, Zilli, J.E.\*, Coelho, M.R.\*, Xavier, G.R.\*, Fischer, D., Hartmann, A., Reis, V.M.\*, Baldani, J.I.\*: Endophytic *Bradyrhizobium* spp. isolates from sugarcane obtained through different culture strategies. *Environ. Microbiol. Rep.*, DOI:10.1111/1758-2229.12122 (2013)

Rühle, F.A., Klier, C., Stumpp, C.: Changes in water flow and solute transport pathways during long-term column experiments. *Vadose Zone J.* **12**, DOI:10.2136/vzj2013.01.0032 (2013)

Samborska, K.\*, Różkowski, A.\*, Maloszewski, P.: Estimation of groundwater residence time using environmental radioisotopes (<sup>14</sup>C,T) in carbonate aquifers, Southern Poland. *Isotopes Environ. Health Stud.* **49**, 73-97 (2013)

Scheler, C., Durner, J., Astier, J.: Nitric oxide and reactive oxygen species in plant biotic interactions. *Curr. Opin. Plant Biol.* **16**, 534-539 (2013)

Schreglmann, K., Hoeche, M., Steinbeiss, S., Reinnicke, S., Elsner, M.: Carbon and nitrogen isotope analysis of atrazine and desethylatrazine at sub-microgram per liter concentrations in groundwater. *Anal. Bioanal. Chem.* **405**, 2857-2867 (2013)

Schröder, P., Belis, C.A.\*, Schnelle-Kreis, J., Herzig, R.\*, Prévôt, A.S.\*, Raveton, M.\*, Kirchner, M., Catinon, M.\*: Why air quality in the Alps remains a matter of concern. The impact of organic pollutants in the Alpine area. *Environ. Sci. Pollut. Res.* **21**, 252-267 (2014) [published online 2013]

Schulte, M.J.D.\*, Matyssek, R.\*, Gayler, S., Priesack, E., Grams, T.E.E.\*: Mode of competition for light and water amongst juvenile beech and spruce trees under ambient and elevated levels of O<sub>3</sub> and CO<sub>2</sub>. *Trees-Struct. Funct.* **27**, 1763-1773 (2013)

Schulz, S., Engel, M., Fischer, D., Buegger, F., Elmer, M.\*, Welzl, G., Schloter, M.: Diversity pattern of nitrogen fixing microbes in nodules of *Trifolium arvense* (L.) at different initial stages of ecosystem development. *Biogeosciences* **10**, 1183-1192 (2013)

Schulz, S., Brankatschk, R.\*, Dümig, A.\*, Kögel-Knabner, I.\*, Schloter, M., Zeyer, J.\*: The role of microorganisms at different stages of ecosystem development for soil formation. *Biogeosciences* **10**, 3983-3996 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

### **Terrestrial Environment**

Schweiger, W.\*, Pasquet, J.C.\*, Nussbaumer, T., Kovalsky Paris, M.P.\*, Wiesenberger, G.\*, Macadré, C.\*, Ametz, C.\*, Berthiller, F.\*, Lemmens, M.\*, Saindrenan, P.\*, Mewes, H.-W., Mayer, K.F.X., Dufresne, M.\*, Adam, G.\*: Functional characterization of two clusters of *Brachypodium distachyon* UDP-glycosyltransferases encoding putative deoxynivalenol detoxification genes. *Mol. Plant Microbe Interact.* **26**, 781-792 (2013)

Sieper, T., Forczek, S.\*, Matucha, M.\*, Krämer, P., Hartmann, A., Schröder, P.: *N*-acyl-homoserine lactone uptake and systemic transport in barley rest upon active parts of the plant. *New Phytol.* **201**, 545–555 (2014) [published online 2013]

Silvar, C.\*, Perovic, D.\*, Nussbaumer, T., Spannagl, M., Usadel, B.\*, Casas, A.\*, Igartua, E.\*, Ordon, F.\*: Towards positional isolation of three quantitative trait loci conferring resistance to powdery mildew in two spanish barley landraces. *PLoS ONE* **8**:e67336 (2013)

Sixt, B.S.\*, Siegl, A.\*, Müller, C., Watzka, M.\*, Wultsch, A.\*, Tziotis, D., Montanaro, J.\*, Richter, A.\*, Schmitt-Kopplin, P., Horn, M.\*: Metabolic features of *Protochlamydia amoebophila* elementary bodies - a link between activity and infectivity in *Chlamydiae*. *PLoS Pathog.* **9**:e1003553 (2013)

Spahr, S.\*, Huntscha, S.\*, Bolotin, J.\*, Maier, M.P., Elsner, M., Hollender, J.\*, Hofstetter, T.B.\*: Compound-specific isotope analysis of benzotriazole and its derivatives. *Anal. Bioanal. Chem.* **405**, 2843-2856 (2013)

Ssebugere, P.\*, Kiremire, B.T.\*, Henkelmann, B., Bernhöft, S., Kasozi, G.N.\*, Wasswa, J.\*, Schramm, K.-W.: PCDD/Fs and dioxin-like PCBs in fish species from Lake Victoria, East Africa. *Chemosphere* **92**, 317-321 (2013)

Ssebugere, P.\*, Kiremire, B.T.\*, Henkelmann, B., Bernhöft, S., Wasswa, J.\*, Kasozi, G.N.\*, Schramm, K.-W.: PCDD/Fs and dioxin-like PCBs in surface sediments from Lake Victoria, East Africa. *Sci. Total Environ.* **454-455**, 528-533 (2013)

Steinbrecher, R.\*, Contran, N.\*, Gugerli, F.\*, Schnitzler, J.-P., Zimmer, I., Menard, T.\*, Günthardt-Goerg, M.S.\*: Inter- and intra-specific variability in isoprene production and photosynthesis of Central European oak species. *Plant Biol.* **15**, 148-156 (2013)

Stempfhuber, B.\*, Welzl, G., Wubet, T.\*, Schöning, I.\*, Marhan, S.\*, Buscot, F.\*, Kandeler, E.\*, Schloter, M.: Drivers for ammonia-oxidation along a land-use gradient in grassland soils. *Soil Biol. Biochem.* **69**, 179-186 (2013)

Stumpp, C., Hose, G.C.\*: The impact of water table drawdown and drying on subterranean aquatic fauna in *in-vitro* experiments. *PLoS ONE* **8**:e78502 (2013)

Sun, H.Y., Wang, C.-X.\*, Wang, X.D.\*, Rees, R.M.\*: Changes in soil organic carbon and its chemical fractions under different tillage practices on loess soils of the Guanzhong Plain in North-West China. *Soil Use Manage.* **29**, 344-353 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

### **Terrestrial Environment**

Tseng, L.Y.\*, Gonsior, M.\*, Schmitt-Kopplin, P., Cooper, W.J.\*, Pitt, P.\*, Rosso, D.\*: Molecular characteristics and differences of effluent organic matter from parallel activated sludge and Integrated Fixed-film Activated Sludge (IFAS) processes. *Environ. Sci. Technol.* **47**, 10277-10284 (2013)

Ud-Daula, A., Pfister, G., Schramm, K.-W.: Method for toxicity test of titanium dioxide nanoparticles in ciliate protozoan *Tetrahymena*. *J. Environ*. *Sci. Health Part A-Toxic/Hazard*. *Subst. Environ*. *Eng.* **48**, 1343-1348 (2013)

Vigeland, M.D.\*, Spannagl, M., Asp, T.\*, Paina, C.\*, Rudi, H.\*, Rognli, O.A.\*, Fjellheim, S.\*, Sandve, S.R.\*: Evidence for adaptive evolution of low-temperature stress response genes in a Pooideae grass ancestor. *New Phytol.* **199**, 1060-1068 (2013)

von Netzer, F., Pilloni, G., Kleindienst, S.\*, Krüger, M.\*, Knittel, K.\*, Gründger, F.\*, Lueders, T.: Enhanced gene detection assays for fumarate-adding enzymes allow uncovering of anaerobic hydrocarbon degraders in terrestrial and marine systems. *Appl. Environ. Microbiol.* **79**, 543-552 (2013)

Walter, J.\*, Hein, R.\*, Beierkuhnlein, C.\*, Hammerl, V., Jentsch, A.\*, Schadler, M.\*, Schuerings, J.\*, Kreyling, J.\*: Combined effects of multifactor climate change and land-use on decomposition in temperate grassland. *Soil Biol. Biochem.* **60**, 10-18 (2013)

Wanat, N.\*, Austry, A.\*, Joussein, E.\*, Soubrand, M.\*, Hitmi, A.\*, Gauthier-Moussard, C.\*, Lenain, J.-F.\*, Vernay, P.\*, Munch, J.-C., Pichon, M.\*: Potentials of *Miscanthus* × *giganteus* grown on highly contaminated technosols. *J. Geochem. Explor.* **126-127**, 78-84 (2013)

Wang, F., Fekete, A., Harir, M., Chen, X., Dörfler, U., Rothballer, M., Jiang, X.\*, Schmitt-Kopplin, P., Schroll, R.: Soil remediation with a microbial community established on a carrier: Strong hints for microbial communication during 1,2,4-trichlorobenzene degradation. *Chemosphere* **92**, 1403-1409 (2013)

Wang, J., Bovee, T.F.H.\*, Bi, Y.\*, Bernhöft, S., Schramm, K.-W.: Aryl hydrocarbon receptor (AhR) inducers and estrogen receptor (ER) activities in surface sediments of Three Gorges Reservoir, China evaluated with in vitro cell bioassays. *Environ. Sci. Pollut. Res.* **21**, 3145-3155 (2014) [published online 2013]

Wang, J., Henkelmann, B., Bi, Y.\*, Zhu, K.\*, Pfister, G., Hu, W.\*, Temoka, C., Westrich, B.\*, Schramm, K.-W.: Temporal variation and spatial distribution of PAH in water of Three Gorges Reservoir during the complete impoundment period. *Environ. Sci. Pollut. Res.* **20**, 7071-7079 (2013)

Way, D.A.\*, Ghirardo, A., Kanawati, B., Esperschütz, J., Monson, R.K.\*, Jackson, R.B.\*, Schmitt-Kopplin, P., Schnitzler, J.-P.: Increasing atmospheric CO<sub>2</sub> reduces metabolic and physiological differences between isoprene- and non-isoprene-emitting poplars. *New Phytol.* **200**, 534-546 (2013)

Westwood, J.H.\*, Depamphilis, C.W.\*, Das, M., Fernandez-Aparicio, M.\*, Timko, M.P.\*, Wafula, E.K.\*, Wickett, N.J.\*, Yoder, J.I.\*: The parasitic plant genome project: New tools for understanding the biology of *Orobanche* and *Striga. Weed Sci.* **60**, 295-306 (2012)

German Research Center for Environmental Health

## **Publication List 2013**

2014-03-07

\* external authors are starred

### **Terrestrial Environment**

Wibberg, D.\*, Jelonek, L.\*, Rupp, O.\*, Hennig, M.\*, Eikmeyer, F.\*, Goesmann, A.\*, Hartmann, A., Borriss, R.\*, Grosch, R.\*, Pühler, A.\*, Schlüter, A.\*: Establishment and interpretation of the genome sequence of the phytopathogenic fungus *Rhizoctonia solani* AG1-IB isolate 7/3/14. *J. Biotechnol.* **167**, 142-155 (2013)

Wunderlich, A., Meckenstock, R.U., Einsiedl, F.\*: A mixture of nitrite-oxidizing and denitrifying microorganisms affects the  $\delta^{18}$ O of dissolved nitrate during anaerobic microbial denitrification depending on the  $\delta^{18}$ O of ambient water. *Geochim. Cosmochim. Acta* **119**, 31-45 (2013)

Xu, Q.\*, Zhu, X.H.\*, Henkelmann, B., Schramm, K.-W., Chen, J.P.\*, Ni, Y.W.\*, Wang, W.\*, Pfister, G., Mu, J.\*, Qin, S.T.\*, Li, Y.\*: Simultaneous monitoring of PCB profiles in the urban air of Dalian, China with active and passive samplings. *J. Environ. Sci.* **25**, 133-143 (2013)

Xu, Z.L., Fiedler, S., Pfister, G., Henkelmann, B., Mosch, C.\*, Völkel, W.\*, Fromme, H.\*, Schramm, K.-W.: Human exposure to fluorotelomer alcohols, perfluorooctane sulfonate and perfluorooctanoate via house dust in Bavaria, Germany. *Sci. Total Environ.* **443**, 485-490 (2013)

Yakan, S.D.\*, Henkelmann, B., Schramm, K.-W., Okay, O.S.\*: Bioaccumulation-depuration kinetics and effects of phenanthrene on Mediterranean mussel (*Mytilus galloprovincialis*). *J. Environ. Sci. Health Part A-Toxic/Hazard. Subst. Environ. Eng.* **48**, 1037-1046 (2013)

Yasmin, S.\*, Hafeez, F.Y.\*, Schmid, M., Hartmann, A.: Plant-beneficial rhizobacteria for sustainable increased yield of cotton with reduced level of chemical fertilizers. *Pak. J. Bot.* **45**, 655-662 (2013)

Yekta, S.S.\*, Gonsior, M.\*, Schmitt-Kopplin, P., Svensson, B.H.\*: Characterization of dissolved organic matter in full scale continuous stirred tank biogas reactors using ultrahigh resolution mass spectrometry: A qualitative overview. *Environ. Sci. Technol.* **46**, 12711-12719 (2012)

Yin, R., Han, K., Heller, W., Albert, A., Dobrev, P.I.\*, Zazimalova, E.\*, Schäffner, A.R.: Kaempferol 3-O-rhamnoside-7-O-rhamnoside is an endogenous flavonol inhibitor of polar auxin transport in *Arabidopsis* shoots. *New Phytol.* **201**, 466–475 (2014) [published online 2013]

Zeitler, B., Diaz, A.H., Dangel, A., Thellmann, M., Meyer, H., Sattler, M., Lindermayr, C.: De-novo design of antimicrobial peptides for plant protection. *PLoS ONE* **8**:e71687 (2013)

Zeitler, B., Bernhard, A., Meyer, H., Sattler, M., Koop, H.-U.\*, Lindermayr, C.: Production of a *denovo* designed antimicrobial peptide in *Nicotiana benthamiana*. *Plant Mol. Biol.* **81**, 259-272 (2013)

Zhang, X.\*, Liu, W.\*, Schloter, M., Zhang, G.\*, Chen, Q.\*, Huang, J.\*, Li, L.\*, Elser, J.J.\*, Han, X.\*: Response of the abundance of key soil microbial nitrogen-cycling genes to multi-factorial global changes. *PLoS ONE* **8**:e76500 (2013)

Zhu, X.\*, Zhou, C.\*, Henkelmann, B., Wang, Z.\*, Ma, X.\*, Pfister, G., Schramm, K.-W., Chen, J.\*, Ni, Y.\*, Wang, W.\*, Mu, J.\*: Monitoring of PAHs profiles in the urban air of Dalian, China with active high-volume sampler and semipermeable membrane devices. *Polycycl. Aromat. Compd.* **33**, 265-288 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

### **Terrestrial Environment**

Ziegler, M., Engel, M., Welzl, G., Schloter, M.: Development of a simple root model to study the effects of single exudates on the development of bacterial community structure. *J. Microbiol. Methods* **94**, 30-36 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-03-07

\* external authors are starred

## **German Center for Lung Research**

Aumiller, V., Balsara, N.\*, Wilhelm, J.\*, Günther, A.\*, Königshoff, M.: WNT/β-catenin signaling induces interleukin 1β expression by alveolar epithelial cells in pulmonary fibrosis. *Am. J. Respir. Cell Mol. Biol.* **49**, 96-104 (2013)

Baarsma, H.A., Königshoff, M., Gosens, R.\*: The WNT signaling pathway from ligand secretion to gene transcription: Molecular mechanisms and pharmacological targets. *Pharmacol. Ther.* **138**, 66-83 (2013)

Baumann, R.\*, Rabaszowski, M.\*, Stenin, I.\*, Tilgner, L.\*, Gaertner-Akerboom, M.\*, Scheckenbach, K.\*, Wiltfang, J.\*, Chaker, A., Schipper, J.\*, Wagenmann, M.\*: Nasal levels of soluble IL-33R ST2 and IL-16 in allergic rhinitis: Inverse correlation trends with disease severity. *Clin. Exp. Allergy* **43**, 1134-1143 (2013)

Brinkhaus, B.\*, Ortiz, M.\*, Witt, C.M.\*, Roll, S.\*, Linde, K.\*, Pfab, F., Niggemann, B.\*, Hummelsberger, J.\*, Treszl, A.\*, Ring, J.\*, Zuberbier, T.\*, Wegscheider, K.\*, Willich, S.N.\*: Acupuncture in patients with seasonal allergic rhinitis: A randomized trial. *Ann. Intern. Med.* **158**, 225-234 (2013)

Brockow, K., Garvey, L.H.\*, Aberer, W.\*, Atanaskovic-Markovic, M.\*, Barbaud, A.\*, Bilo, M.B.\*, Bircher, A.\*, Blanca, M.\*, Bonadonna, B.\*, Campi, P.\*, Castro, E.\*, Cernadas, J.R.\*, Chiriac, A.M.\*, Demoly, P.\*, Grosber, M.\*, Gooi, J.\*, Lombardo, C.\*, Mertes, P.M.\*, Mosbech, H.\*, Nasser, S.\*, Pagani, M.\*, Ring, J.\*, Romano, A.\*, Scherer, K.\*, Schnyder, B.\*, Testi, S.\*, Torres, M.\*, Trautmann, A.\*, Terreehorst, I.\*: Skin test concentrations for systemically administered drugs - an ENDA/EAACI Drug Allergy Interest Group position paper. *Allergy* **68**, 702-712 (2013)

Cifuentes, L.\*, Kiritsi, D.\*, Chen, W.\*, Pennino, J., Ring, J.\*, Weidinger, S.\*, Has, C.\*: A case of junctional epidermolysis bullosa with prurigo-like lesions and reduction of collagen XVII and filaggrin. *Br. J. Dermatol.* **169**, 195-198 (2013)

Cifuentes, L., Ring, J.\*, Brockow, K.: Clonal mast cell activation syndrome with anaphylaxis to sulfites. *Int. Arch. Allergy Immunol.* **162**, 94-96 (2013)

Fischer-Stabauer, M.\*, Boehner, A., Eyerich, S., Carbone, T.\*, Traidl-Hoffmann, C.\*, Schmidt-Weber, C.B., Cavani, A.\*, Ring, J.\*, Hein, R.\*, Eyerich, K.\*: Differential *in situ* expression of IL-17 in skin diseases. *Eur. J. Dermatol.* **22**, 781-784 (2012)

Hausteiner-Wiehle, C.\*, Grosber, M.\*, Bubel, E.\*, Groben, S.\*, Bornschein, S.\*, Lahmann, C.\*, Eyer, F.\*, Eberlein, B.\*, Behrendt, H., Löwe, B.\*, Henningsen, P.\*, Huber, D.\*, Ring, J., Darsow, U.: "Medically Unexplained Symptoms" bei Patienten mit Verdacht auf Allergien: Die Rolle der psychiatrischen Komorbidität und der Arzt-Patienten-Interaktion. *Allergologie* **36**, 3-8 (2013)

Pennino, D., Bhavsar, P.K.\*, Effner, R., Avitabile, S.\*, Venn, P.\*, Quaranta, M., Marzaioli, V., Cifuentes, L., Durham, S.R.\*, Cavani, A.\*, Eyerich, K.\*, Chung, K.F.\*, Schmidt-Weber, C.B., Eyerich, S.: IL-22 suppresses IFN-γ-mediated lung inflammation in asthmatic patients. *J. Allergy Clin. Immunol.* **131**, 562-570 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

## **German Center for Lung Research**

Pöss, J.\*, Lorenz, D.\*, Werner, C.\*, Pavlikova, V.\*, Gensch, C.\*, Speer, T.\*, Alessandrini, F., Berezowski, V.\*, Kuntz, M.\*, Mempel, M.\*, Endres, M.\*, Böhm, M.\*, Laufs, U.\*: Diesel exhaust particles impair endothelial progenitor cells, compromise endothelial integrity, reduce neoangiogenesis, and increase atherogenesis in mice. *Cardiovasc. Toxicol.* **13**, 290-300 (2013)

Schamberger, A.C., Mise, N., Jia, J., Genoyer, E., Yildirim, A.Ö., Meiners, S., Eickelberg, O.: Cigarette smoke-induced disruption of bronchial epithelial tight junctions is prevented by transforming growth factor-beta. *Am. J. Respir. Cell Mol. Biol.*, DOI:10.1165/rcmb.2013-0090OC (2013)

Soyer, O.U.\*, Akdis, M.\*, Ring, J.\*, Behrendt, H., Crameri, R.\*, Lauener, R.\*, Akdis, C.A.\*: Mechanisms of peripheral tolerance to allergens. *Allergy* **68**, 161-170 (2013)

German Research Center for Environmental Health

## **Publication List 2013**

2014-03-07

\* external authors are starred

### **German Center for Diabetes Research**

Daniel, C., Gerlach, K.\*, Väth, M.\*, Neurath, M.F.\*, Weigmann, B.\*: Nuclear factor of activated T cells - a transcription factor family as critical regulator in lung and colon cancer. *Int. J. Cancer* **134**, 1767–1775 (2014) [published online 2013]

Frankó, A., Kleist-Retzow, J.C.\*, Neschen, S., Wu, M., Schommers, P.\*, Böse, M.\*, Kunze, A.\*, Hartmann, U.\*, Sanchez-Lasheras, C.\*, Stoehr, O.\*, Huntgeburth, M.\*, Brodesser, S.\*, Irmler, M., Beckers, J., Hrabé de Angelis, M., Paulsson, M.\*, Schubert, M.\*, Wiesner, R.J.\*: Liver adapts mitochondrial function to insulin resistant and diabetic states in mice. *J. Hepatol.*, DOI:10.1016/j.jhep.2013.11.020 (2013)

Gao, Y., Ottaway, N.\*, Schriever, S.C., Legutko, B., García-Cáceres, C., de la Fuente, E., Mergen, C., Bour, S., Thaler, J.P.\*, Seeley, R.J.\*, Filosa, J.\*, Stern, J.E.\*, Perez-Tilve, D.\*, Schwartz, M.W.\*, Tschöp, M.H., Yi, C.-X.: Hormones and diet, but not body weight, control hypothalamic microglial activity. *Glia* **62**, 17-25 (2014)

Modzelewska, K.\*, Lauritzen, A.\*, Hasenöder, S., Brown, L.\*, Georgiou, J.\*, Moghal, N.\*: Neurons refine the *Caenorhabditis elegans* body plan by directing axial patterning by Wnts. *PLoS Biol.* **11**:e1001465 (2013)

Müller, T.D., Müller, A.\*, Yi, C.-X., Habegger, K.M.\*, Meyer, C.W., Gaylinn, B.D.\*, Finan, B., Heppner, K.\*, Trivedi, C.\*, Bielohuby, M.\*, Abplanalp, W.\*, Meyer, F.\*, Piechowski, C.L.\*, Pratzka, J.\*, Stemmer, K., Holland, J.\*, Hembree, J.\*, Bhardwaj, N.\*, Raver, C.\*, Ottaway, N.\*, Krishna, R.\*, Sah, R.\*, Sallee, F.R.\*, Woods, S.C.\*, Perez-Tilve, D.\*, Bidlingmaier, M.\*, Thorner, M.O.\*, Krude, H.\*, Smiley, D.\*, DiMarchi, R.\*, Hofmann, S., Pfluger, P.T., Kleinau, G.\*, Biebermann, H.\*, Tschöp, M.H.: The orphan receptor Gpr83 regulates systemic energy metabolism via ghrelin-dependent and ghrelin-independent mechanisms. *Nat. Commun.* **4**:1968 (2013)

Orban, E., Schwab, S., Thorand, B., Huth, C.: Association of iron indices and type 2 diabetes: A meta-analysis of observational studies. *Diabetes Metab. Res. Rev.*, DOI:10.1002/dmrr.2506 (2013)

Scheler, M., Irmler, M., Lehr, S., Hartwig, S., Staiger, H., Al-Hasani, H., Beckers, J., Hrabé de Angelis, M., Häring, H.U., Weigert, C.: Cytokine response of primary human myotubes in an *in vitro* exercise model. *Am. J. Physiol.-Cell Physiol.* **305**, C877-C886 (2013)

Serr, I., Weigmann, B.\*, Franke, R.K., Daniel, C.: Treg vaccination in autoimmune type 1 diabetes. *Biodrugs* **28**, 7-16 (2014) [published online 2013]

Then, C., Wahl, S., Kirchhofer, A.\*, Grallert, H.H., Krug, S., Kastenmüller, G., Römisch-Margl, W., Claussnitzer, M., Illig, T.\*, Heier, M., Meisinger, C., Adamski, J., Thorand, B., Huth, C., Peters, A., Prehn, C., Heukamp, I.\*, Laumen, H., Lechner, A., Hauner, H., Seissler, J.: Plasma metabolomics reveal alterations of sphingo- and glycerophospholipid levels in non-diabetic carriers of the transcription factor 7-like 2 polymorphism rs7903146. *PLoS ONE* 8:e78430 (2013)

von Boehmer, H.\*, Daniel, C.: Therapeutic opportunities for manipulating T<sub>Reg</sub> cells in autoimmunity and cancer. *Nat. Rev. Drug Discov.* **12**, 51-63 (2013)

German Research Center for Environmental Health

# **Publication List 2013**

2014-03-07

\* external authors are starred

### **German Center for Diabetes Research**

Wahl, S., Krug, S., Then, C., Kirchhofer, A., Kastenmüller, G., Brand, T., Skurk, T.\*, Claussnitzer, M.\*, Huth, C., Heier, M., Meisinger, C., Peters, A., Thorand, B., Gieger, C., Prehn, C., Römisch-Margl, W., Adamski, J., Suhre, K., Illig, T., Grallert, H.H., Laumen, H., Seissler, J., Hauner, H.: Comparative analysis of plasma metabolomics response to metabolic challenge tests in healthy subjects and influence of the FTO obesity risk allele. *Metabolomics*, DOI:10.1007/s11306-013-0586-x (2013)

Warncke, K., Krasmann, M., Puff, R., Dunstheimer, D.\*, Ziegler, A.-G., Beyerlein, A.: Does diabetes appear in distinct phenotypes in young people? Results of the diabetes mellitus Incidence Cohort Registry (DiMelli). *PLoS ONE* 8:e74339 (2013)